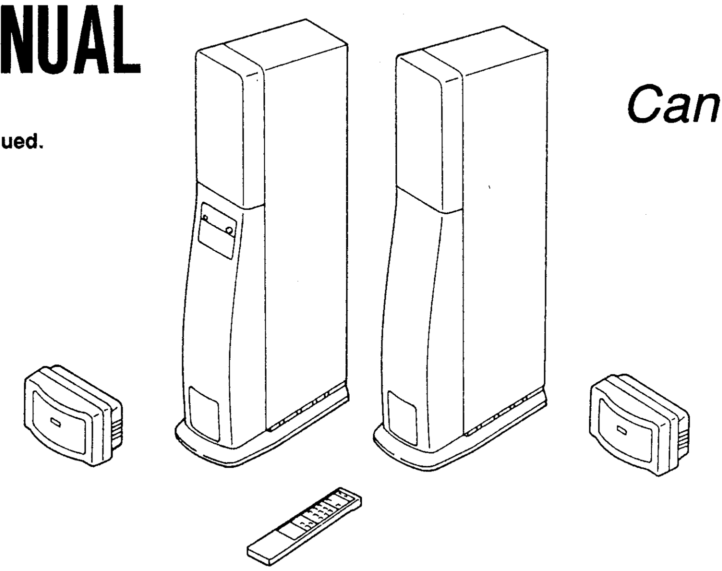
SA-VA3

SERVICE MANUAL

Discard SA-VA3 Service Manual (No.9-957-848-11) previously issued. This service manual contains it.

US Model
Canadian Model
AEP Model
UK Model



SPECIFICATIONS

Amplifier section

Continuous RMS power output	total 170 W Center tweeter: 26 W (4 ohms at 10 kHz,10 % THD) Front tweeter: 22.5 W + 22.5 W (4 ohms at 10 kHz,10 % THD) Front woofer: 23 W + 23 W (4 ohms at 1 kHz, 10 % THD) Super woofer: 27 W (4 ohms at 40 Hz, 10 % THD) Rear: 26 W (4 ohms at 1 kHz, 10 % THD)
Input sensitivity/Impedance	INPUT 1/2: 150 mV, 50 kilohms
Output	INPUT 1/2: 150 mV, 1 kilohm Center: 350 mV, 2 kilohms Rear: Accept only supplied rear speaker SS-SR300 R-ch: Accept only SA-VA3 R-ch speaker with supplied exclusive speaker cord
Tone control	
Front	Bass: ±8 dB at 100 Hz Treble: ±8 dB at 10 kHz
Center	+0 dB, –6 dB at 10 kHz
Bass boost	+10 dB at 30 Hz

Speaker section

Type	
Front speaker system	Bassreflex type
DBR super woofer	SAW type
Rear speaker	Bassreflex type
Speaker unit	
Front speaker system	Center tweeter: 5 cm cone type (x2) Front tweeter: 5 cm cone type (x2) Front woofer: 13 cm cone type (x2) Super woofer: 16 cm cone type (x2)
Rear speaker	10 cm cone type (x2)

General

Power requirement	120 V AC, 60Hz (US, Canadian) 220V — 230V AC, 60Hz (AEP) 240V AC, 50/60Hz (UK)
Power consumption	105 W
Dimensions	Approx. 200 x 1040 x 300 mm (w/h/d) ($7\,{}^{7}/_{8}$ x $44\,{}^{7}/_{8}$ x $11\,{}^{13}/_{16}$ inches) Approx. 260 x 1040 x 476 mm (w/h/d, including speaker base) ($10\,{}^{1}/_{4}$ x $44\,{}^{7}/_{8}$ x $18\,{}^{3}/_{4}$ inches)
Mass	Front (L): 26.5 kg (58 lb 7 oz) Front (R): 19.5 kg (42 lb x16 oz) Rear: 750 g/pc (1 lb 10 oz)
Supplied accessories	Front L/R speaker connecting cord, 4 m (1) Rear speaker connecting cord, 10 m (2) Audio connecting cord, 3 m (1) Remote Commander RM-VA3 (1) Sony batteries SUM-3 (NS) (2)

Design and specifications are subject to change without notice.

HOME THEATER ACTIVE SPEAKER SYSTEM

使用時は添付資料も参照のこと
Refer to the additional documents.

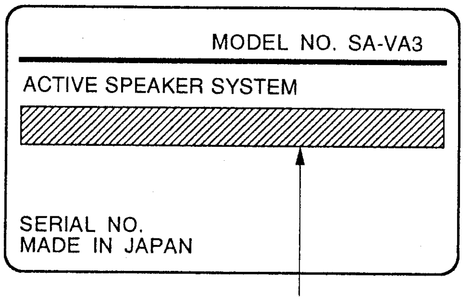
SONY®

Dolby Pro Logic* mode
Four Dolby Pro Logic modes are available when an amplified center speaker is connected to the left speaker's CENTER OUT jack.

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3,959,590: Canadian numbers 1,004,603 and 1,037,877. "DOLBY", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

MODEL IDENTIFICATION

– SPECIFICATION LABEL –



US, Canadian MODEL : AC 120V, 60Hz, 105W
AEP MODEL : AC 220V — 230V, 50/60Hz
UK MODEL : AC 240V, 50/60Hz

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Note
US -11/12 : US model last digit -11/12.
US -13 : US model last digit -13 or later.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

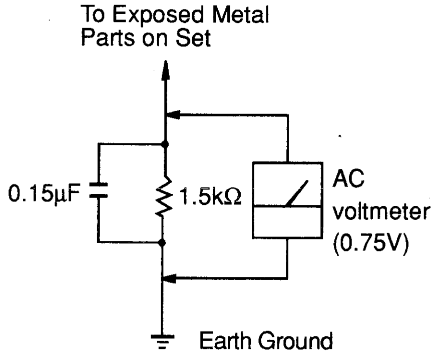


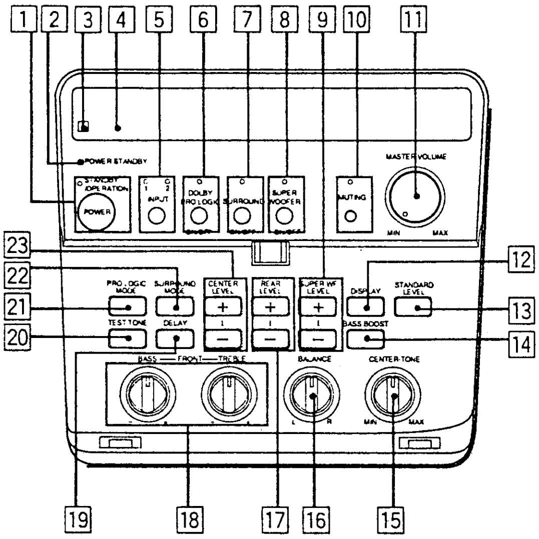
Fig. A. Using an AC voltmeter to check AC leakage.

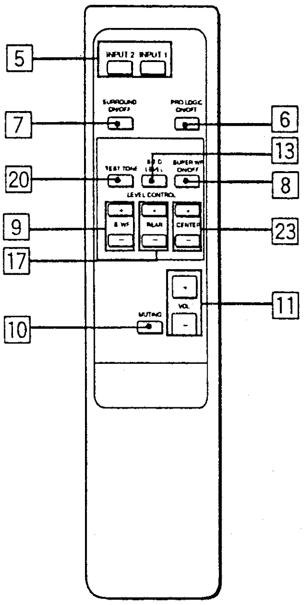
SECTION 1
GENERAL

This section is extracted from instruction manual.

Identifying the Parts and Controls

Front Panel of the Left Spaker/Remote Commander


1
2
3
4
5
6
7
8
9
10
11
23
22
21
20
12
13
14
19
18
17
16
15
POWER STANDBY
STANDBY/OPERATION
POWER
INPUT
DOLBY PRO LOGIC
SURROUND
SUPER WOOFER
MUTING
MASTER VOLUME
MIN
MAX
PRO LOGIC MODE
SURROUND MODE
CENTER LEVEL
REAR LEVEL
SUPER WF LEVEL
DISPLAY
STANDARD LEVEL
TEST TONE
DELAY
BASS BOOST
BASS
FRONT
TREBLE
BALANCE
CENTER TONE
L
R


5
7
20
9
17
10
6
13
8
23
11
INPUT 2
INPUT 1
SURROUND ON/OFF
PRO LOGIC ON/OFF
TEST TONE
SUPER WF ON/OFF
LEVEL CONTROL
S.WF
REAR
CENTER
MUTING
VOL

1 **POWER switch and STANDBY/OPERATION indicator**
When the power is turned on and the audio signal is not input, this indicator lights in red and the unit enters the standby mode.
For about 15 seconds after this, the display and the indicators of the buttons are shown in the last setting mode. When the audio signal is input, this indicator lights in green and the indicators of the buttons are shown.
For about 30 seconds after the audio signal is terminated, the display and the indicators of the buttons remains being shown.
After about 3 minutes after the audio signal is terminated, the POWER STANDBY indicator turns to red and the unit enters the standby mode.

2 **POWER STANDBY indicator**
When connecting the AC power cord, this indicator lights in red.

3 **Remote sensor**

4 **Display**

5 **INPUT 1/2 button and indicators** (Page 11.)

6 **PRO LOGIC ON/OFF button** (Page 11.)

7 **SURROUND ON/OFF button** (Page 11.)

8 **SUPER WF (woofer) ON/OFF button** (Page 11.)

9 **SUPER WF (woofer) LEVEL +/– buttons** (Page 12.)

10 **MUTING button** (Page 11.)

11 **MASTER VOLUME control/VOL +/– buttons** (Page 11.)

12 **DISPLAY button** (Page 11.)

13 **STANDARD LEVEL button** (Page 13.)

14 **BASS BOOST button** (Page 13.)

15 **CENTER TONE control** (Page 13.)

16 **BALANCE control** (Page 13.)

17 **REAR LEVEL +/– buttons** (Page 12.)

18 **TONE BASS/TREBLE controls** (Page 13.)

19 **DELAY button** (Page 13.)

20 **TEST TONE button** (Page 12.)

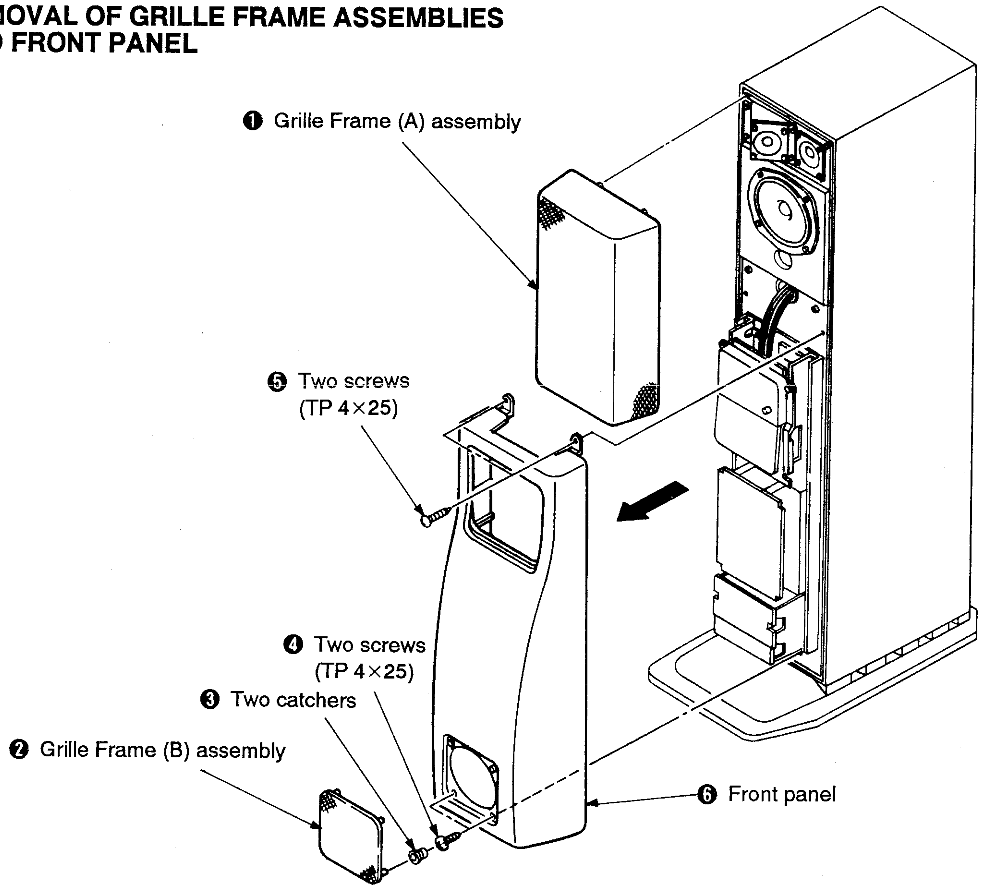
21 **PRO LOGIC MODE button** (Page 14.)

22 **SURROUND MODE button** (Page 11.)

23 **CENTER LEVEL +/– buttons** (Page 12.)

SECTION 2
DISASSEMBLY

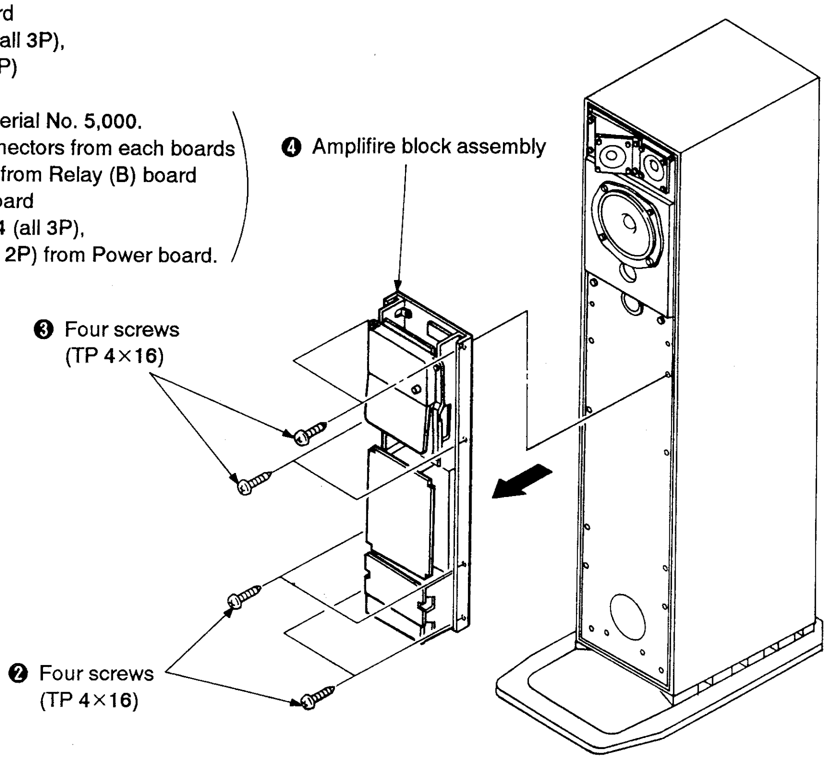
2-1. REMOVAL OF GRILLE FRAME ASSEMBLIES AND FRONT PANEL


❶ Grille Frame (A) assembly
❺ Two screws
(TP 4×25)
❹ Two screws
(TP 4×25)
❸ Two catchers
❷ Grille Frame (B) assembly
❻ Front panel

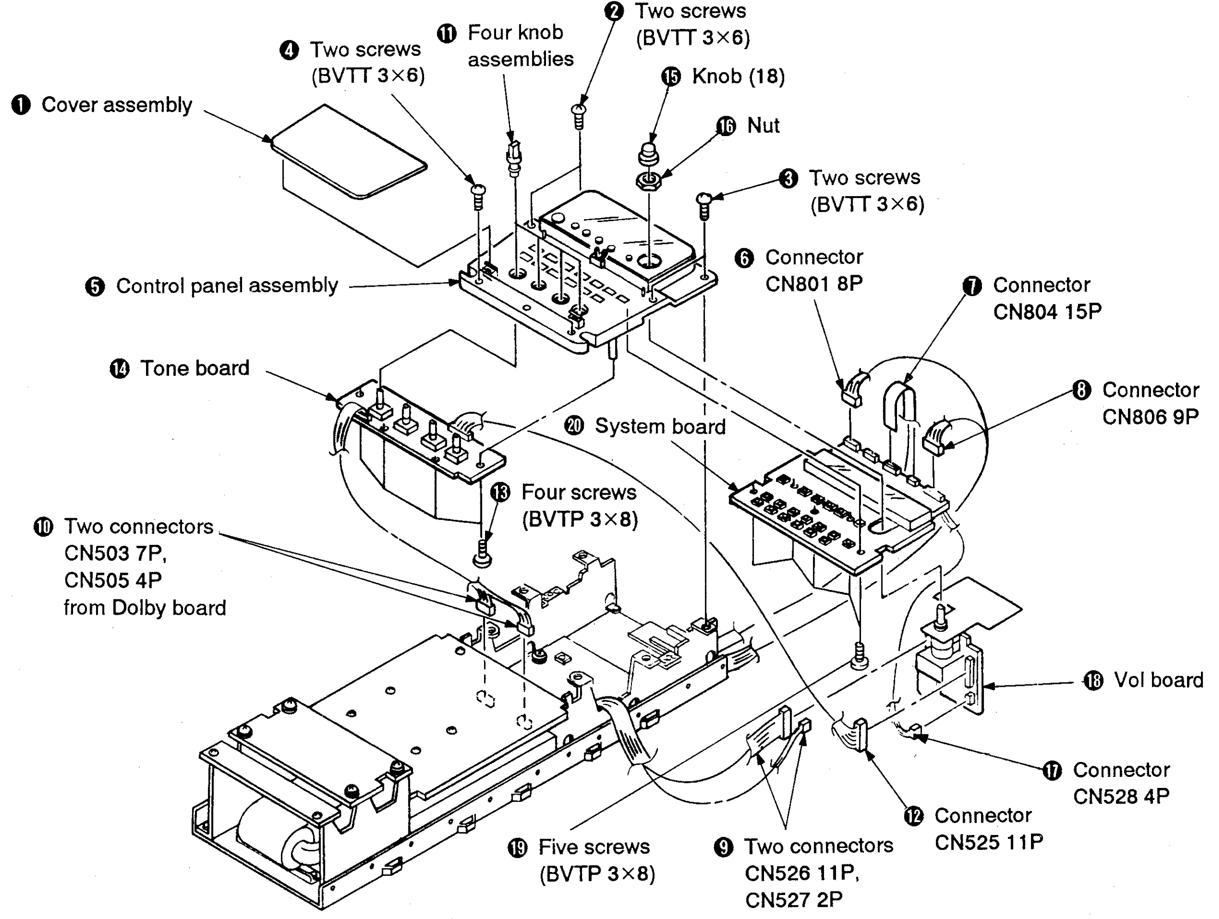
2-2. REMOVAL OF AMPLIFIER BLOCK ASSEMBLY

❶ Remove the twelve connectors from each boards
CN551 9P from Relay board
CN802 7P from System board
CN901 2P from Fuse board
CN606/607/612/613/614 (all 3P),
CN608/609/610/611 (all 2P)
from Power board

(Note. US MODEL: before serial No. 5,000.
❶ Remove the twelve connectors from each boards
CN552 9P and CN5 7P from Relay (B) board
CN901 2P from Fuse board
CN606/607/612/613/614 (all 3P),
CN608/609/610/611 (all 2P) from Power board.)

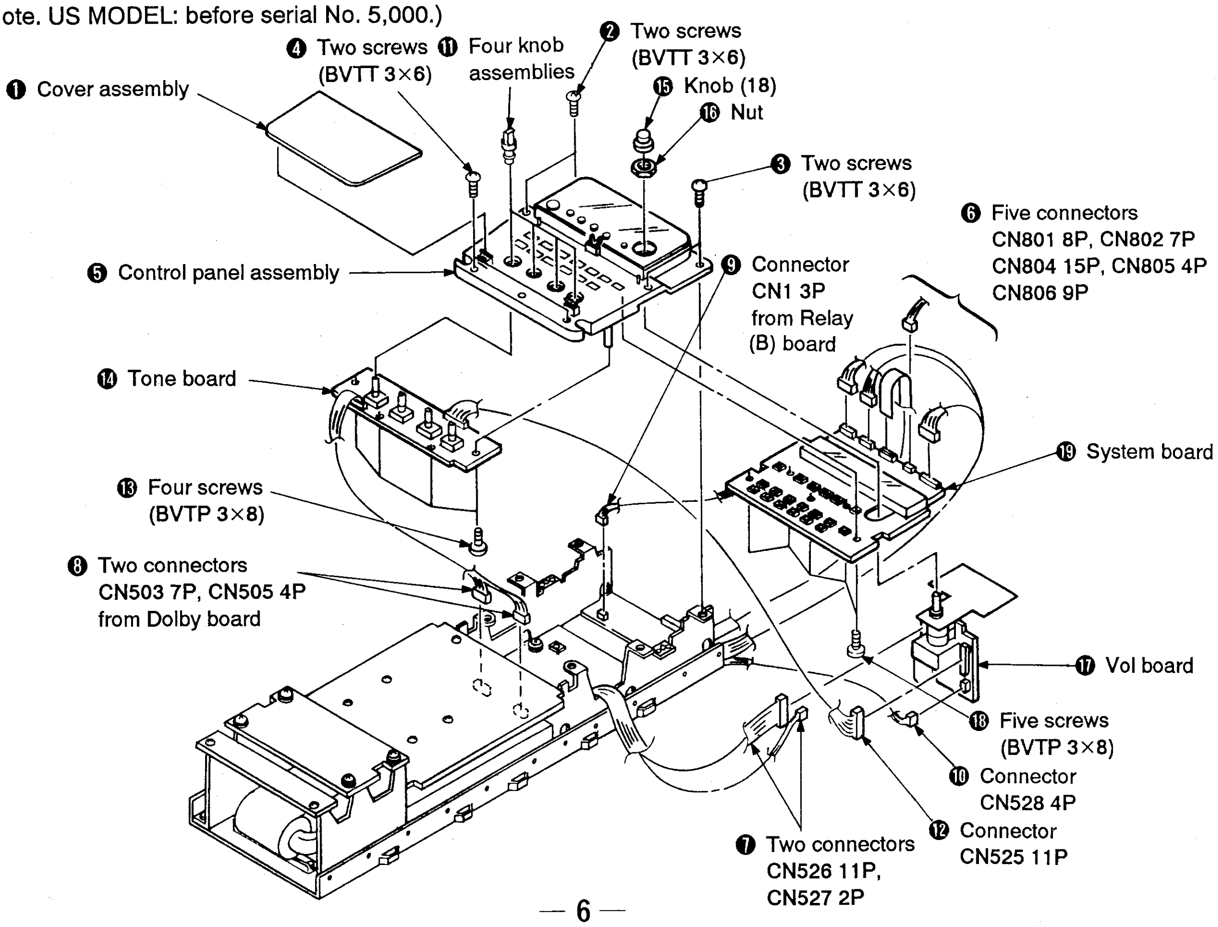

❹ Amplifire block assembly
❸ Four screws
(TP 4×16)
❷ Four screws
(TP 4×16)

2-3. REMOVAL OF SYSTEM, VOL, TONE, PS BOARDS AND CONTROL PANEL ASSEMBLY

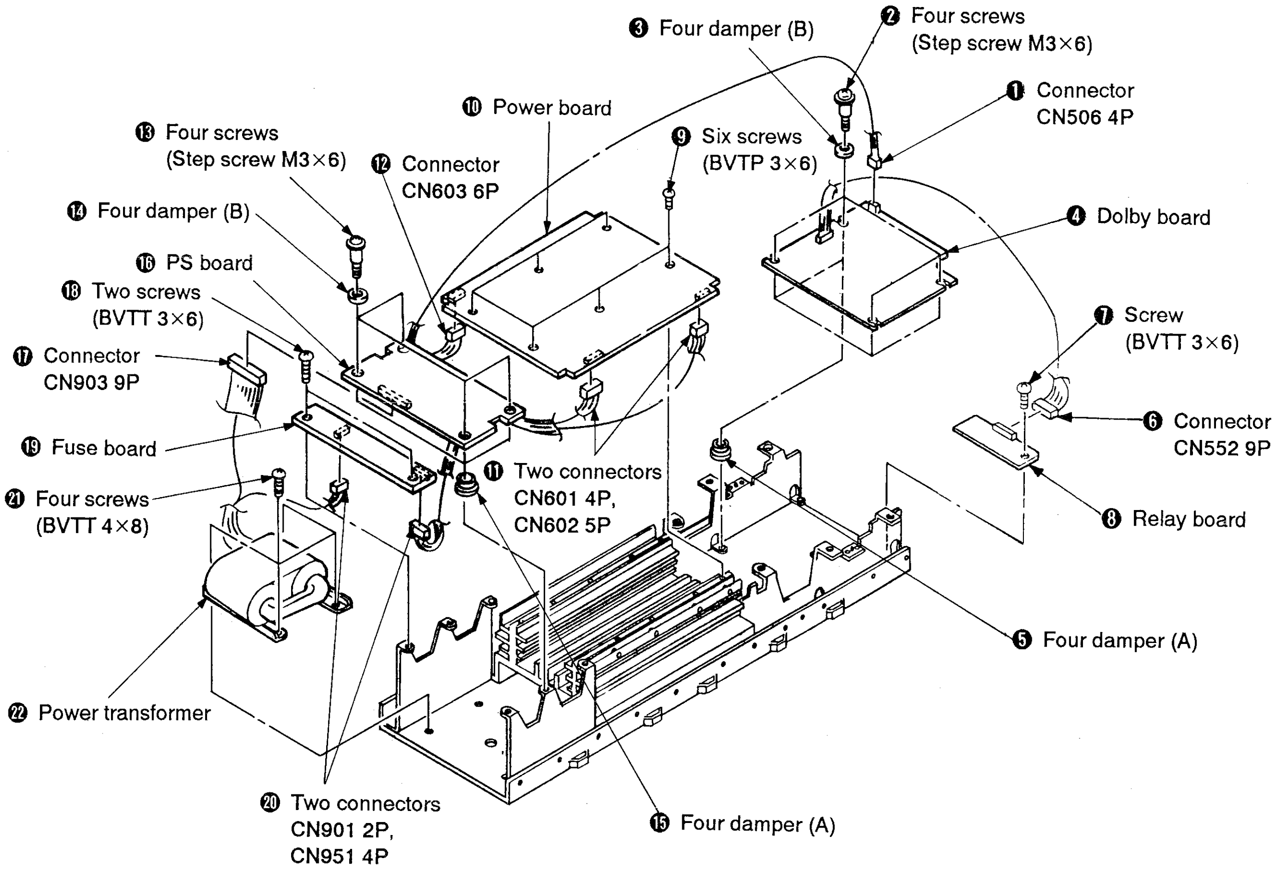

❷ Two screws (BVTT 3×6)
⓫ Four knob assemblies
❹ Two screws (BVTT 3×6)
⓯ Knob (18)
❶ Cover assembly
⓰ Nut
❸ Two screws (BVTT 3×6)
❻ Connector CN801 8P
❺ Control panel assembly
❼ Connector CN804 15P
⓮ Tone board
❽ Connector CN806 9P
⓴ System board
⓭ Four screws (BVTP 3×8)
❿ Two connectors CN503 7P, CN505 4P from Dolby board
⓲ Vol board
⓱ Connector CN528 4P
⓬ Connector CN525 11P
⓳ Five screws (BVTP 3×8)
❾ Two connectors CN526 11P, CN527 2P

2-3. REMOVAL OF SYSTEM, VOL, TONE, PS BOARDS AND CONTROL PANEL ASSEMBLY

(Note. US MODEL: before serial No. 5,000.)

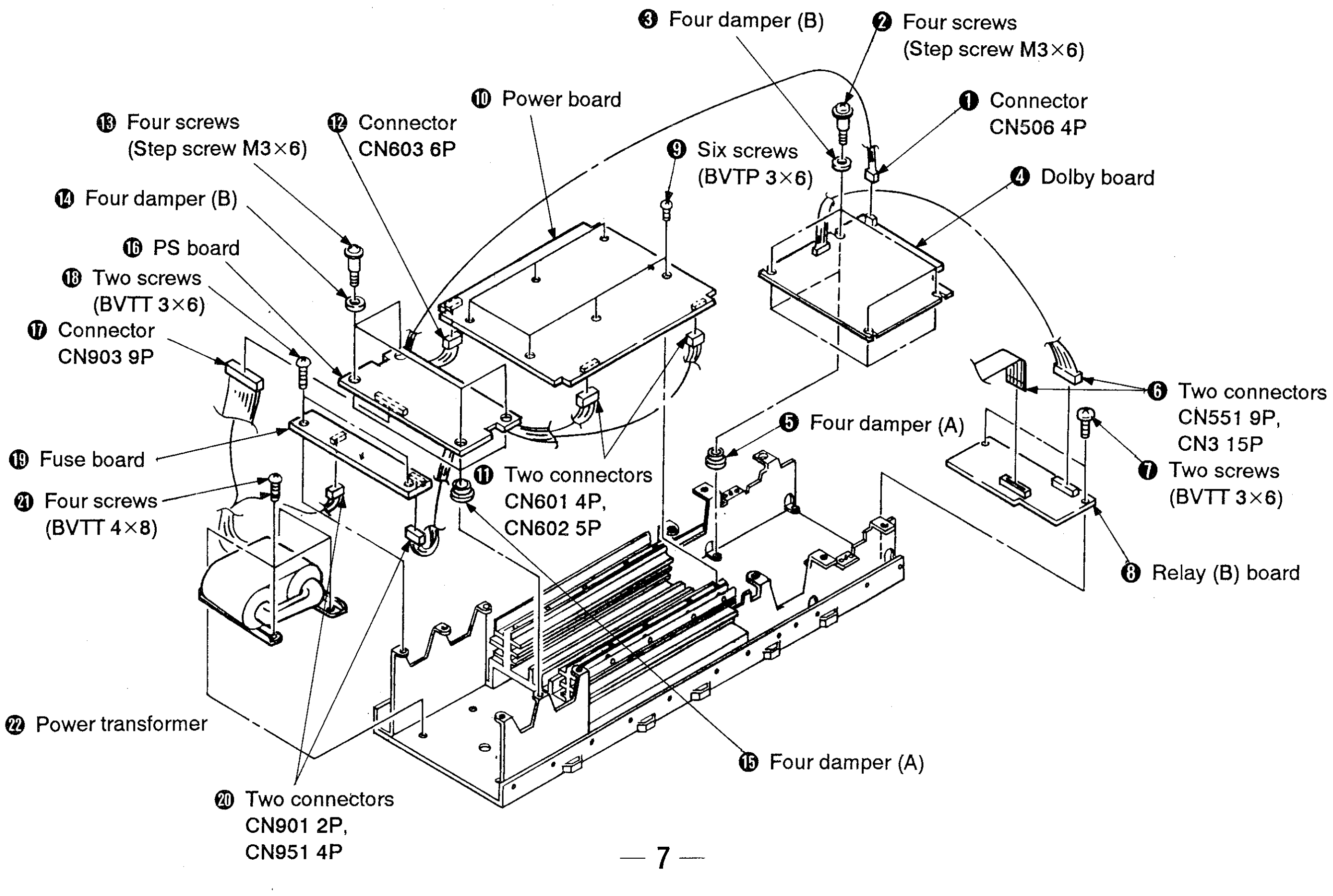

❹ Two screws (BVTT 3×6)
⓫ Four knob assemblies
❷ Two screws (BVTT 3×6)
❶ Cover assembly
⓯ Knob (18)
⓰ Nut
❸ Two screws (BVTT 3×6)
❻ Five connectors CN801 8P, CN802 7P CN804 15P, CN805 4P CN806 9P
❺ Control panel assembly
❾ Connector CN1 3P from Relay (B) board
⓮ Tone board
⓳ System board
⓭ Four screws (BVTP 3×8)
❽ Two connectors CN503 7P, CN505 4P from Dolby board
⓱ Vol board
⓲ Five screws (BVTP 3×8)
❿ Connector CN528 4P
⓬ Connector CN525 11P
❼ Two connectors CN526 11P, CN527 2P

2-4. REMOVAL OF POWER, DOLBY, PS, FUSE BOARDS AND POWER TRANSFORMER


❸ Four damper (B)
❷ Four screws (Step screw M3×6)
❶ Connector CN506 4P
❿ Power board
⓭ Four screws (Step screw M3×6)
⓬ Connector CN603 6P
❾ Six screws (BVTP 3×6)
⓮ Four damper (B)
❹ Dolby board
⓰ PS board
⓲ Two screws (BVTT 3×6)
❼ Screw (BVTT 3×6)
⓱ Connector CN903 9P
❻ Connector CN552 9P
⓳ Fuse board
⓫ Two connectors CN601 4P, CN602 5P
㉑ Four screws (BVTT 4×8)
❽ Relay board
❺ Four damper (A)
㉒ Power transformer
⓴ Two connectors CN901 2P, CN951 4P
⓯ Four damper (A)

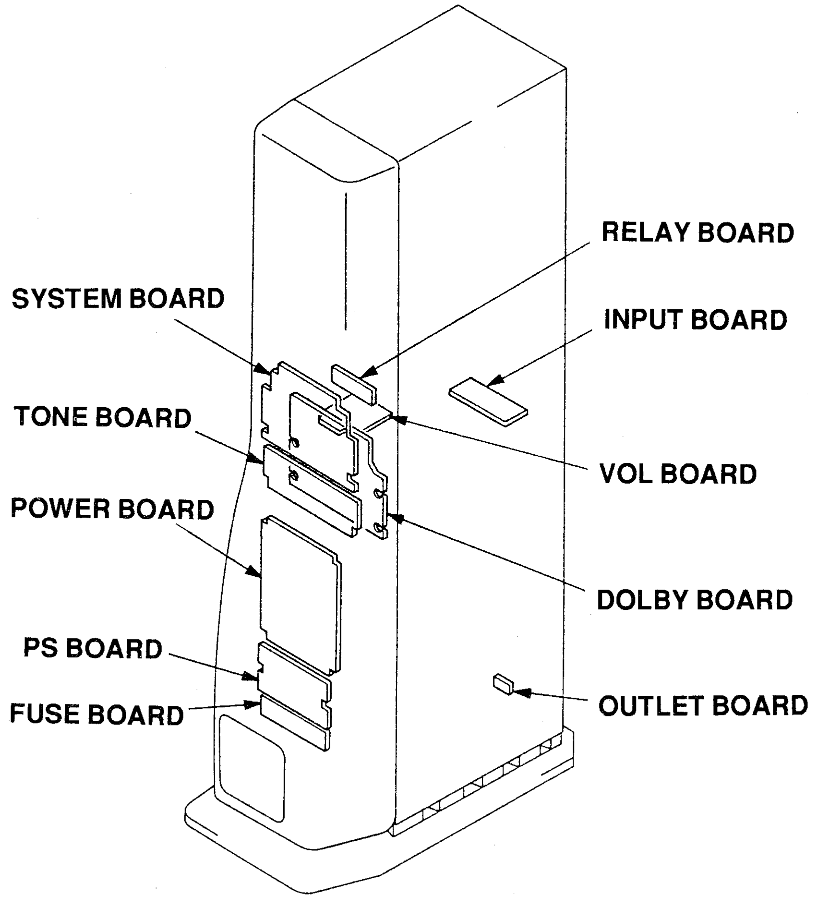
2-4. REMOVAL OF POWER, DOLBY, PS, FUSE BOARDS AND POWER TRANSFORMER

(Note. US MODEL: before serial No. 5,000.)

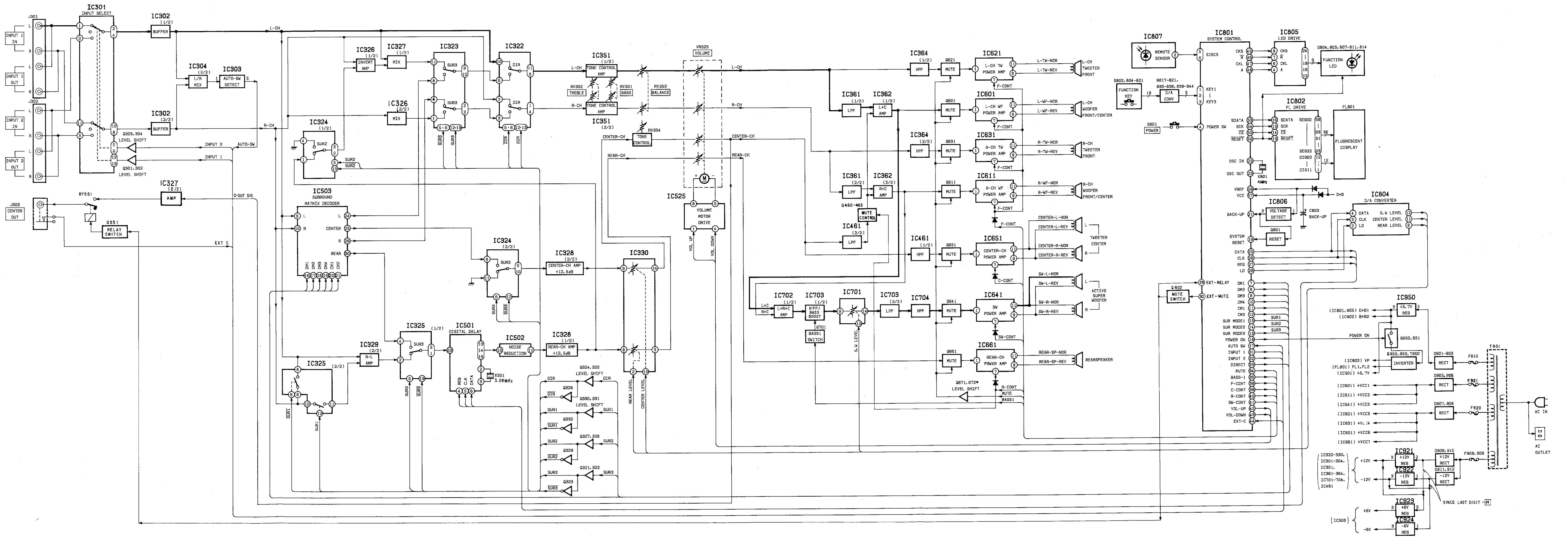

❸ Four damper (B)
❷ Four screws (Step screw M3×6)
❿ Power board
❶ Connector CN506 4P
⓭ Four screws (Step screw M3×6)
⓬ Connector CN603 6P
❾ Six screws (BVTP 3×6)
❹ Dolby board
⓮ Four damper (B)
⓰ PS board
⓲ Two screws (BVTT 3×6)
⓱ Connector CN903 9P
❻ Two connectors CN551 9P, CN3 15P
❺ Four damper (A)
⓳ Fuse board
❼ Two screws (BVTT 3×6)
⓫ Two connectors CN601 4P, CN602 5P
㉑ Four screws (BVTT 4×8)
❽ Relay (B) board
㉒ Power transformer
⓯ Four damper (A)
⓴ Two connectors CN901 2P, CN951 4P

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION


RELAY BOARD
SYSTEM BOARD
INPUT BOARD
TONE BOARD
VOL BOARD
POWER BOARD
DOLBY BOARD
PS BOARD
OUTLET BOARD
FUSE BOARD

3-2. BLOCK DIAGRAM


J301
INPUT 1 IN
INPUT 1 OUT
J302
INPUT 2 IN
INPUT 2 OUT
J303
CENTER OUT
IC301
INPUT SELECT
IC302 (1/2) BUFFER
IC302 (2/2) BUFFER
IC304 (2/2) L/R MIX
IC303 AUTO-SW DETECT
Q303,304 LEVEL SHIFT
Q301,302 LEVEL SHIFT
RY551
Q551 RELAY SWITCH
IC327 (2/2) AMP
C-OUT SIG
EXT C
INPUT 2
INPUT 1
AUTO-SW
L-CH
R-CH
IC326 (1/2) INVERT AMP
IC327 (1/2) MIX
IC326 (2/2) MIX
IC323
IC322
DIR
SUR3
IC324 (1/2)
SUR2
IC503 SURROUND MATRIX DECODER
L
R
CENTER
REAR
IC324 (2/2)
IC328 (2/2) CENTER-CH AMP +12.5dB
IC329 (2/2) R-L AMP
IC325 (1/2)
IC325 (2/2)
IC501 DIGITAL DELAY
X501 3.58MHz
IC502 NOISE REDUCTION
IC328 (1/2) REAR-CH AMP +12.5dB
Q324,325 LEVEL SHIFT
Q326
Q330,331 LEVEL SHIFT
Q332
Q327,328
Q329
Q321,322
Q323
SUR1
IC351 (1/2) TONE CONTROL AMP
IC351 (2/2) TONE CONTROL AMP
RV352 TREBLE
RV351 BASS
RV353 BALANCE
RV354
TONE CONTROL
CENTER-CH
REAR-CH
IC330
REAR LEVEL
CENTER LEVEL
VR525 VOLUME
IC525 VOLUME MOTOR DRIVE
VOL UP
VOL DOWN
IC364 (1/2) HPF
IC364 (2/2) HPF
IC361 (1/2) LPF
IC361 (2/2) LPF
IC362 (1/2) L+C AMP
IC362 (2/2) R+C AMP
Q460-463 MUTE CONTROL
IC461 (2/2) LPF
IC461 (1/2) HPF
IC702 (1/2) L+R+C AMP
IC703 (1/2) HPF/BASS BOOST
Q701 BASS1 SWITCH
IC701
S.W LEVEL
IC703 (2/2) LPF
IC704 HPF
Q621 MUTE
Q601 MUTE
Q631 MUTE
Q611 MUTE
Q651 MUTE
Q641 MUTE
Q661 MUTE
IC621 L-CH TW POWER AMP
IC601 L-CH WF POWER AMP
IC631 R-CH TW POWER AMP
IC611 R-CH WF POWER AMP
IC651 CENTER-CH POWER AMP
IC641 SW POWER AMP
IC661 REAR-CH POWER AMP
F-CONT
C-CONT
SW-CONT
R-CONT
Q671,672 LEVEL SHIFT
MUTE
BASS1
L-TW-NOR
L-TW-REV
L-WF-NOR
L-WF-REV
R-TW-NOR
R-TW-REV
R-WF-NOR
R-WF-REV
CENTER-L-NOR
CENTER-L-REV
CENTER-R-NOR
CENTER-R-REV
SW-L-NOR
SW-L-REV
SW-R-NOR
SW-R-REV
REAR-SP-NOR
REAR-SP-REV
L-CH TWEETER FRONT
L-CH WOOFER FRONT/CENTER
R-CH TWEETER FRONT
R-CH WOOFER FRONT/CENTER
TWEETER CENTER
ACTIVE SUPER WOOFER
REARSPEAKER
IC807 REMOTE SENSOR
S802,804-821 FUNCTION KEY
R817-821, 830-838, 839-844
D/A CONV
S801 POWER
IC801 SYSTEM CONTROL
SIRCS
KEY1
KEY3
POWER SW
IC805 LED DRIVE
D804,805,807-811,814 FUNCTION LED
IC802 FL DRIVE
FL801 FLUORESCENT DISPLAY
X801 4MHz
OSC IN
OSC OUT
VREF
VCC
BACK-UP
IC806 VOLTAGE DETECT
C803 BACK-UP
D+B
Q801 RESET
SYSTEM RESET
IC804 D/A CONVERTER
S.W LEVEL
CENTER LEVEL
REAR LEVEL
DATA
CLK
RFQ
LD
Q802 MUTE SWITCH
EXT-RELAY
EXT-MUTE
DM1
DM2
DM3
DM4
CM1
CM2
SUR MODE1
SUR MODE2
SUR MODE3
POWER ON
AUTO SW
BASS-1
INPUT 1
INPUT 2
DIRECT
MUTE
F-CONT
C-CONT
R-CONT
SW-CONT
VOL-UP
VOL-DOWN
EXT-C
IC950 +5.7V REG
Q950,951
Q952,953,T950 INVERTER
D901-903 RECT
D905,906 RECT
D907,908 RECT
F910
F920
F908,909
T901
AC IN
AC OUTLET
IC921 +12V REG
IC922 -12V REG
D909,910 RECT
D911,912 RECT
IC923 +6V REG
IC924 -6V REG
SINCE LAST DIGIT

3-3. PRINTED WIRING BOARD — MAIN SECTION —

NOTE : US model Boards whose numbers last digit in -11 and -12

- A relay (B) board has been added to boards whose numbers end in -11 and -12.
  (Boards ending in -11 and in -12 are the same boards.)

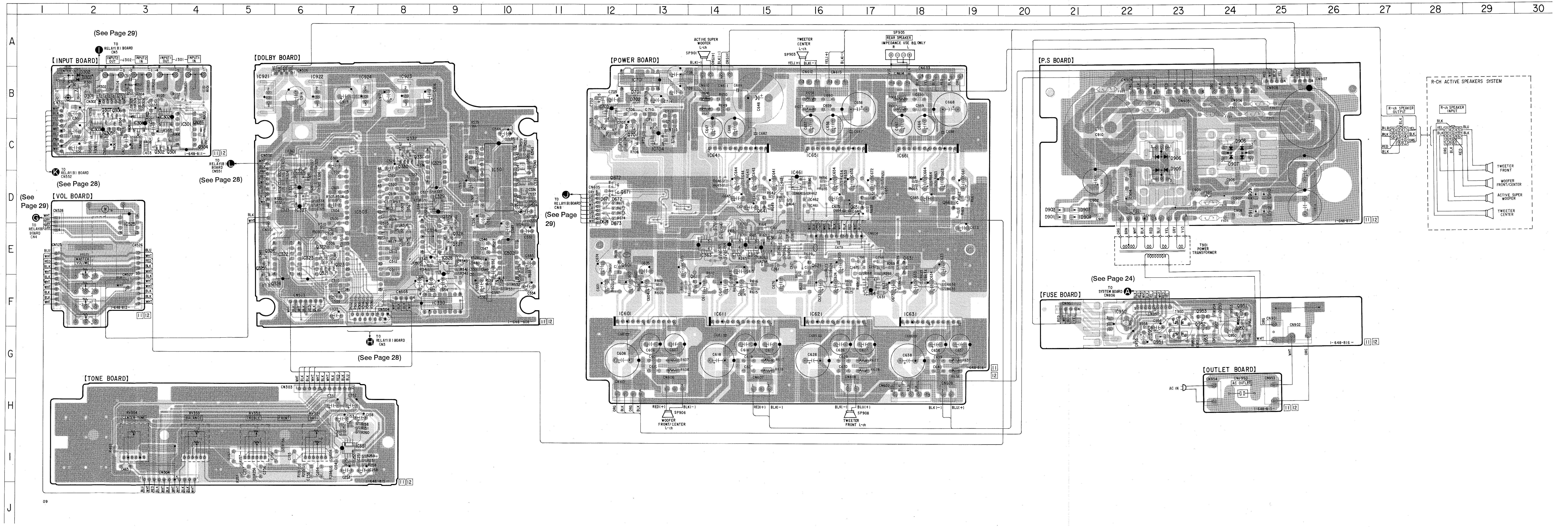
• See page 8 for Circuit Boards Location and page 45 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	B-2	IC631	F-18
D302	B-2	IC641	C-14
D303	B-2	IC651	C-16
D671	D-12	IC661	C-18
D672	D-12	IC701	B-13
D673	D-12	IC702	E-14
D674	D-12	IC703	B-12
D701	B-13	IC704	C-13
D702	B-13	IC921	B-5
D901	D-21	IC922	B-6
D902	D-21	IC923	B-8
D903	D-22	IC924	B-7
D904	E-21	IC950	F-22
D905	D-23		
D906	C-23	Q301	C-4
D907	C-24	Q302	C-3
D908	C-24	Q303	C-4
D909	D-25	Q304	C-4
D910	D-25	Q305	C-2
D911	D-25	Q306	B-2
D912	D-25	Q307	B-2
D950	F-24	Q321	E-7
D951	G-23	Q322	E-7
D952	G-23	Q323	E-7
D953	G-24	Q324	F-5
		Q325	E-5
IC301	C-4	Q326	E-5
IC302	C-3	Q327	E-9
IC303	C-2	Q328	E-9
IC304	C-3	Q329	E-9
IC322	E-6	Q330	C-8
IC323	E-6	Q331	C-8
IC324	E-9	Q332	C-8
IC325	C-9	Q601	E-12
IC326	D-6	Q611	F-14
IC327	D-6	Q621	E-16
IC328	E-9	Q631	E-18
IC329	D-9	Q641	D-15
IC330	F-9	Q651	D-17
IC351	I-7	Q661	D-19
IC361	E-15	Q671	D-12
IC362	E-15	Q672	D-12
IC363	E-14	Q701	C-13
IC364	F-17	Q950	G-24
IC461	D-16	Q951	F-24
IC501	D-10	Q952	G-24
IC502	E-10	Q953	F-24
IC503	D-7		
IC525	E-3		
IC601	F-13		
IC611	F-15		
IC621	F-16		

Note:

- o—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ⁙⁙⁙ : Pattern on the side which is seen. (component side)
- ⁙⁙⁙ : Pattern of the rear side. (conductor side)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
A B C D E F G H I J
(See Page 29)
TO RELAY(B) BOARD CN3
[INPUT BOARD]
TO RELAY(B) BOARD CN552
(See Page 28)
[DOLBY BOARD]
TO RELAY(B) BOARD CN551
(See Page 28)
(See Page 29)
TO RELAY(B) BOARD CN4
[VOL BOARD]
TO RELAY(B) BOARD CN3
(See Page 28)
[TONE BOARD]
[POWER BOARD]
ACTIVE SUPER WOOFER L-ch
SP901
TWEETER CENTER L-ch
SP903
SP905
REAR SPEAKER
IMPEDANCE USE 8Ω ONLY
R L
TO RELAY(B) BOARD CN8
(See Page 29)
IC641
IC651
IC661
IC601
IC611
IC621
IC631
WOOFER FRONT/CENTER L-ch
SP906
TWEETER FRONT L-ch
SP908
[P.S BOARD]
T901 POWER TRANSFORMER
(See Page 24)
TO SYSTEM BOARD CN606
[FUSE BOARD]
[OUTLET BOARD]
AC IN
AC OUTLET
R-CH ACTIVE SPEAKERS SYSTEM
R-ch SPEAKER OUTPUT
R-ch SPEAKER INPUT
TWEETER FRONT
WOOFER FRONT/CENTER
ACTIVE SUPER WOOFER
TWEETER CENTER

Note:
- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : nonflammable resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line
- ▪▪▪▪▪ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark:A plug (input signal) is connected to the input jack J301.(operation LED D805 lights up.)
- Voltages are taken with a VOM (Input impedance10 MΩ).
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨: L-CH SIGNAL (ACTIVE SUPER WOOFER SPEAKER)

3-4. SCHEMATIC DIAGRAM — MAIN SECTION —

NOTE : US model Boards whose numbers last digit in -11 and -12

- A relay (B) board has been added to boards whose numbers end in -11 and -12.
  (Boards ending in -11 and in -12 are the same boards.)

- **See page 46, 47 for IC Block Diagrams.**

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32
33
34
35
A
B
C
D
E
F
G
H
I
J
[INPUT BOARD]
IC301
IC302
IC303
IC304
(See Page 25)
(See Page 26)
(See Page 27)
[DOLBY BOARD]
IC326
IC327
IC322
IC323
IC921
IC922
IC923
IC924
IC501
IC502
IC503
MATRIX DECODER
IC330
IC328
IC324
IC329
IC325
[VOL BOARD]
MASTER VOLUME
IC525
VOLUME MOTOR DRIVER
[TONE BOARD]
IC351
TONE AMP
[POWER BOARD]
IC361
IC362
IC363
IC364
IC702
IC703
IC701
IC704
IC461
IC641
IC651
IC661
IC601
IC611
IC621
IC631
ACTIVE SUPER WOOFER
TWEETER CENTER
REAR SPEAKER
TWEETER FRONT
WOOFER FRONT CENTER
[RS BOARD]
IC950
[FUSE BOARD]
[OUTLET BOARD]
T901 POWER TRANSFORMER

3-5. SCHEMATIC DIAGRAM — DISPLAY SECTION —

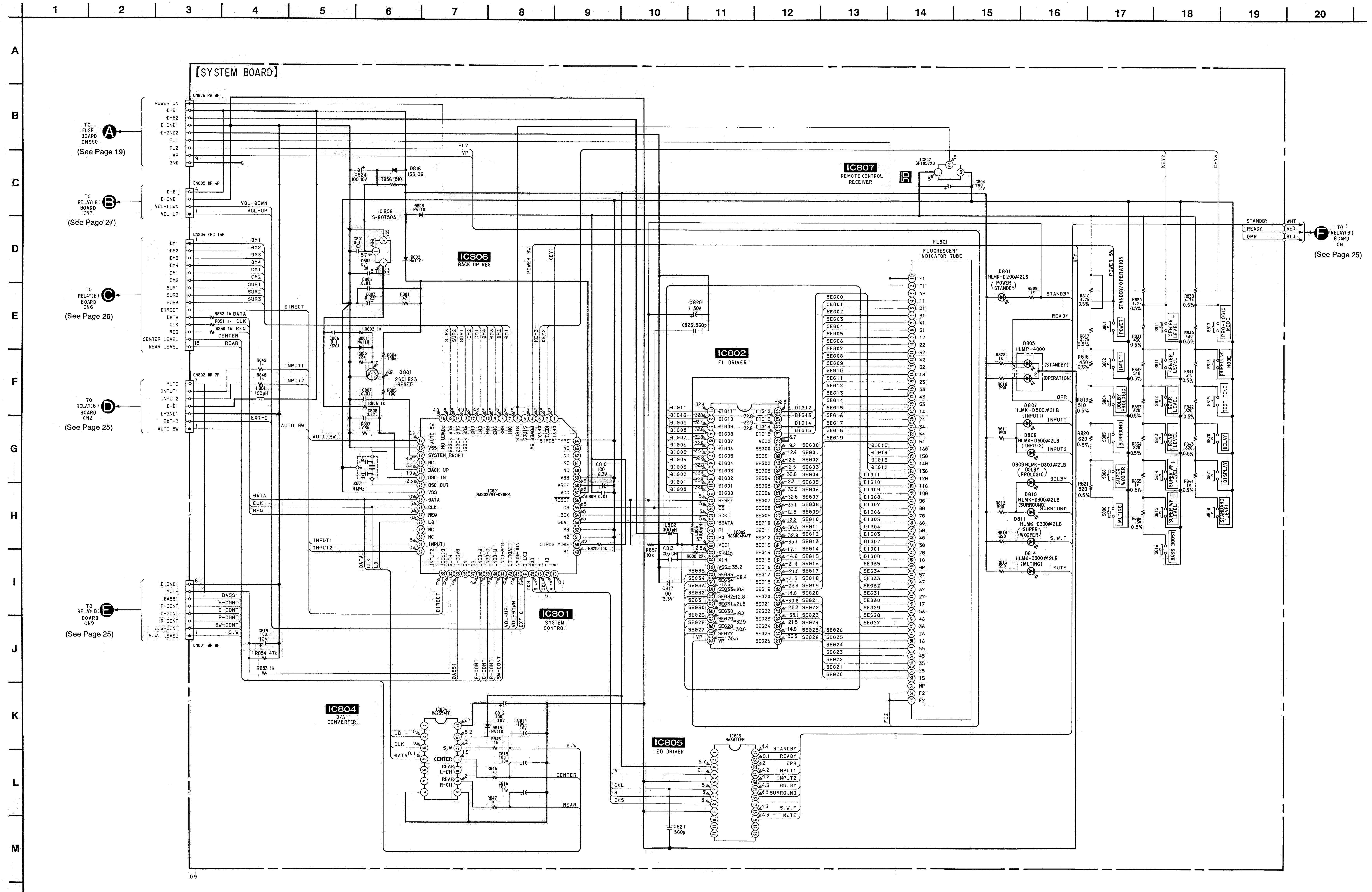
NOTE : US model Boards whose numbers last digit in -11 and -12

- A relay (B) board has been added to boards whose numbers end in -11 and -12.
  (Boards ending in -11 and in -12 are the same boards.)

- **See page 46, 47 for IC Block Diagrams.**

Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▬▬ : B+ Line
- ▪▪▪▪▪ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark:A plug (input signal) is connected to the input jack J301.(operation LED D805 lights up.)
- Voltages are taken with a VOM (Input impedance10 Ω/V).
- Voltage variations may be noted due to normal production tolerances.



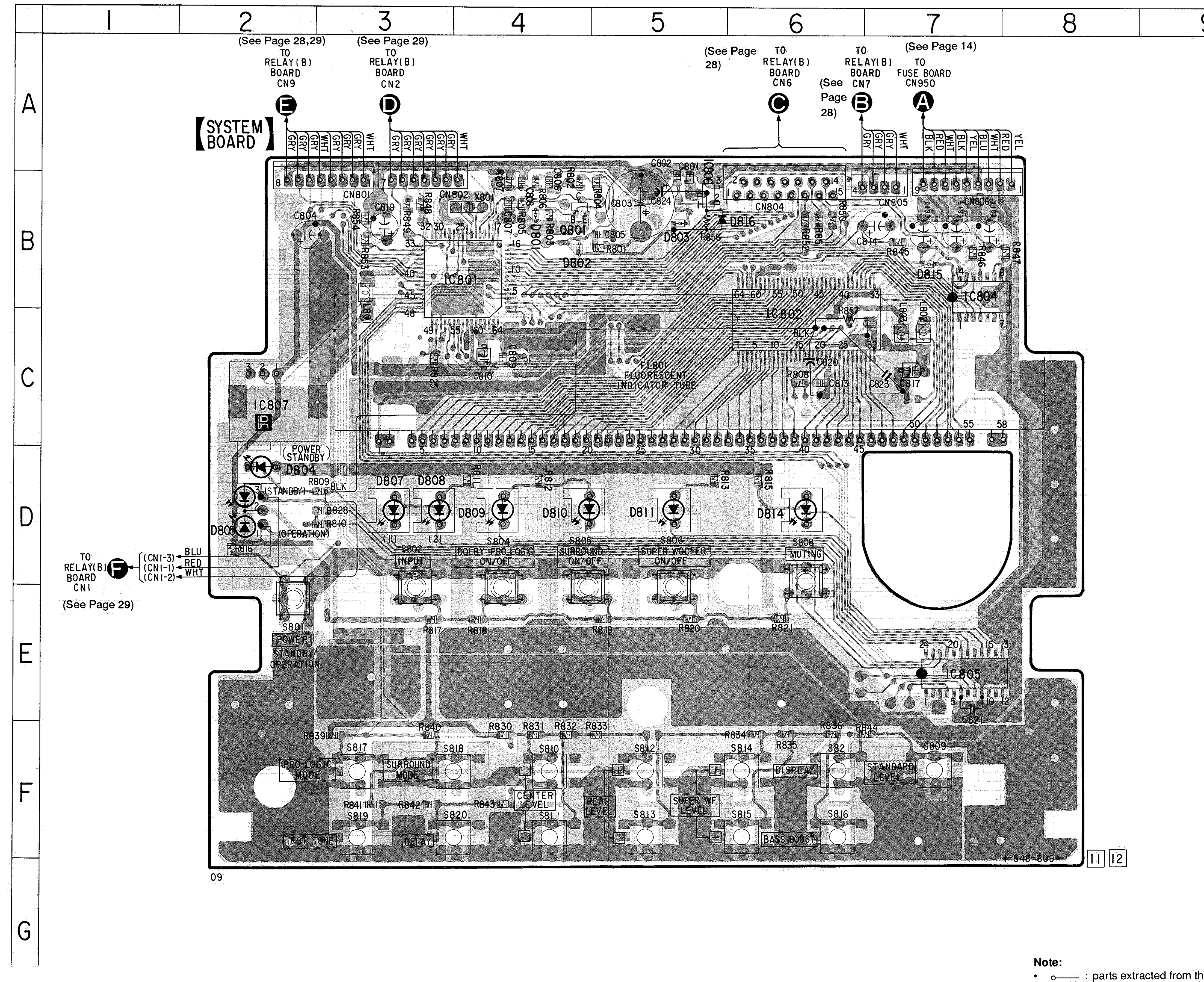
SYSTEM BOARD
TO FUSE BOARD CN950 (See Page 19)
TO RELAY(B) BOARD CN7 (See Page 27)
TO RELAY(B) BOARD CN6 (See Page 26)
TO RELAY(B) BOARD CN2 (See Page 25)
TO RELAY(B) BOARD CN9 (See Page 25)
TO RELAY(B) BOARD CN1 (See Page 25)
IC801 SYSTEM CONTROL
IC802 FL DRIVER
IC804 D/A CONVERTER
IC805 LED DRIVER
IC806 BACK UP REG
IC807 REMOTE CONTROL RECEIVER
FL801 FLUORESCENT INDICATOR TUBE
Q801 2SC1623 RESET
X801 4MHz
STANDBY
READY
OPR

3-6. PRINTED WIRING BOARD — DISPLAY SECTION —

NOTE : US model Boards whose numbers last digit in -11 and -12

- A relay (B) board has been added to boards whose numbers end in -11 and -12.
  (Boards ending in -11 and in -12 are the same boards.)

- **See page 8 for Circuit Boards Location and page 45 for Semiconductor Lead Layouts.**



SYSTEM BOARD
TO RELAY(B) BOARD CN9 (See Page 28,29)
TO RELAY(B) BOARD CN2 (See Page 29)
TO RELAY(B) BOARD CN6 (See Page 28)
TO RELAY(B) BOARD CN7 (See Page 28)
TO FUSE BOARD CN950 (See Page 14)
TO RELAY(B) BOARD CN1 (See Page 29)
FL801 FLUORESCENT INDICATOR TUBE
POWER STANDBY OPERATION
INPUT
DOLBY PRO LOGIC ON/OFF
SURROUND ON/OFF
SUPER WOOFER ON/OFF
MUTING
PRO LOGIC MODE
SURROUND MODE
CENTER LEVEL
REAR LEVEL
SUPER WF LEVEL
DISPLAY
STANDARD LEVEL
TEST TONE
DELAY
BASS BOOST

• Semiconductor Location

Ref. No.	Location
D801	B-4
D802	B-4
D803	B-5
D804	D-2
D805	D-2
D807	D-3
D808	D-3
D809	D-4
D810	D-4
D811	D-5
D814	D-6
D815	B-7
D816	B-6
IC801	B-4
IC802	C-6
IC804	B-7
IC805	E-7
IC806	B-5
IC807	C-2
Q801	B-4

Note:

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ░ : Pattern on the side which is seen. (component side)
- ░ : Pattern of the rear side. (conductor side)

3-7. SCHEMATIC DIAGRAM — RELAY (B) SECTION —

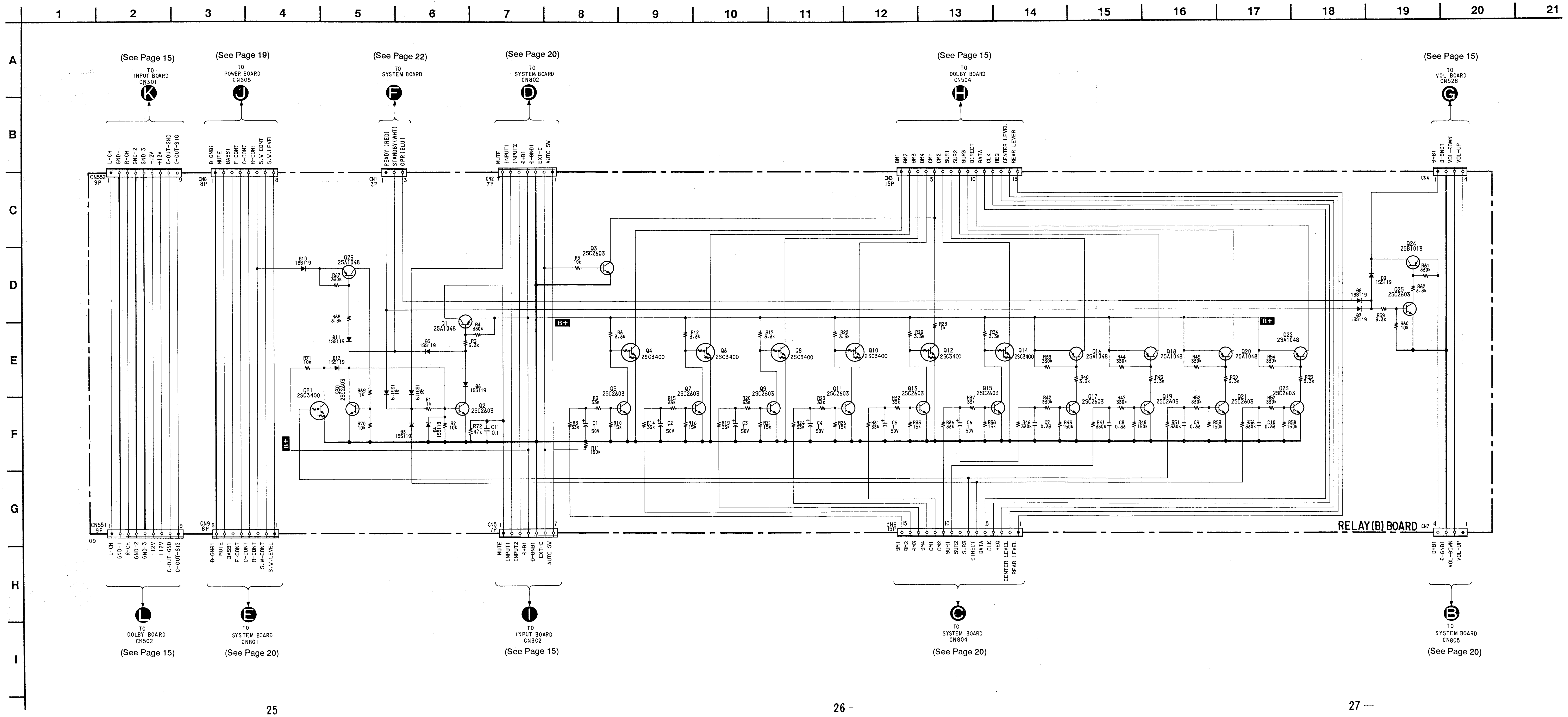
NOTE : US model Boards whose numbers last digit in -11 and -12

- A relay (B) board has been added to boards whose numbers end in -11 and -12. (Boards ending in -11 and in -12 are the same boards.)

• See page 46, 47 for IC Block Diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ : B+ Line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A
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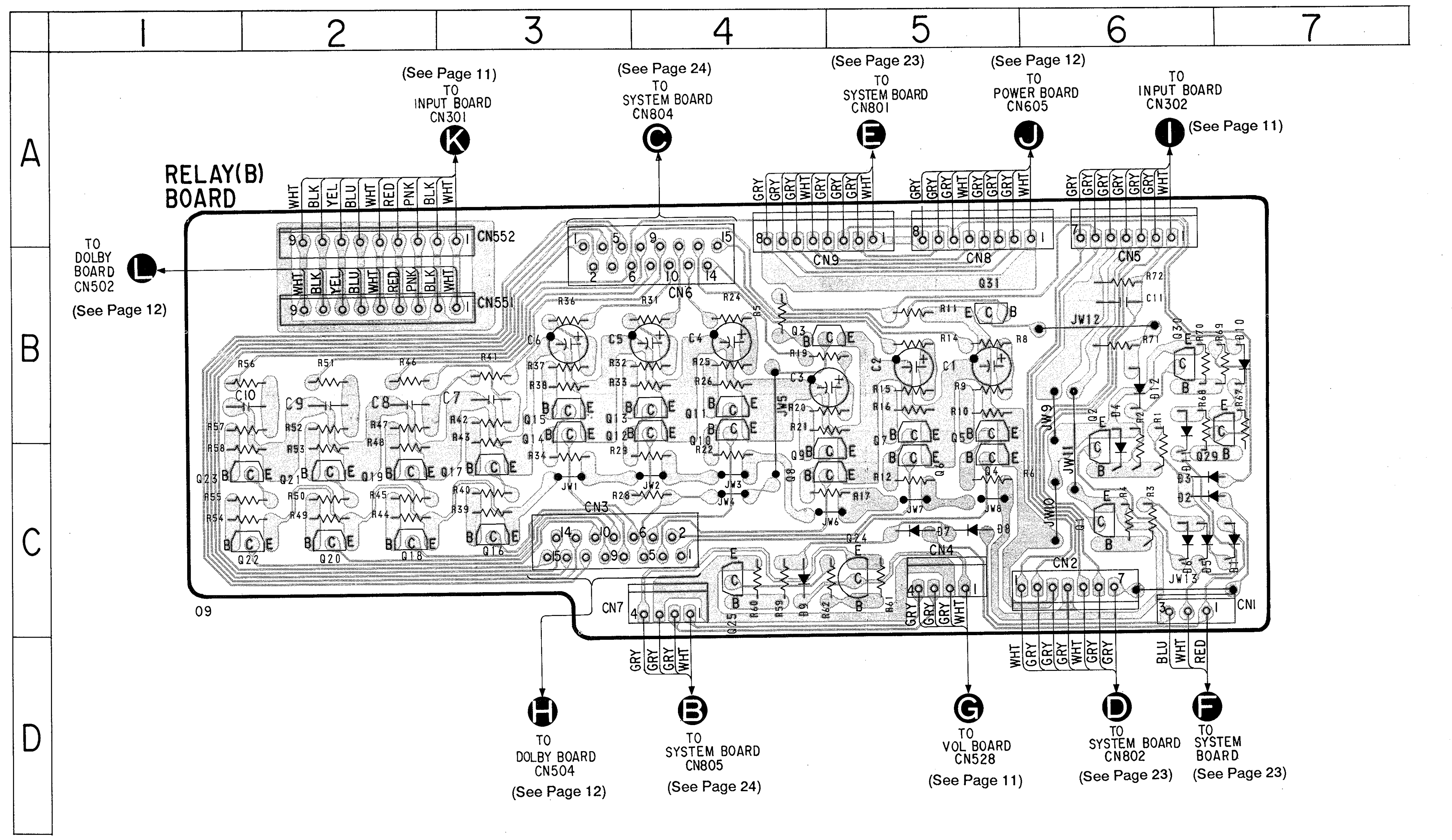
C
D
E
F
G
H
I
(See Page 15)
TO INPUT BOARD CN301
K
(See Page 19)
TO POWER BOARD CN605
J
(See Page 22)
TO SYSTEM BOARD
F
(See Page 20)
TO SYSTEM BOARD CN802
D
(See Page 15)
TO DOLBY BOARD CN504
H
(See Page 15)
TO VOL BOARD CN528
G
B+
RELAY(B) BOARD
L
TO DOLBY BOARD CN502
(See Page 15)
E
TO SYSTEM BOARD CN801
(See Page 20)
I
TO INPUT BOARD CN302
(See Page 15)
C
TO SYSTEM BOARD CN804
(See Page 20)
B
TO SYSTEM BOARD CN805
(See Page 20)

3-8. PRINTED WIRING BOARD — RELAY (B) SECTION —

NOTE : US model Boards whose numbers last digit in -11 and -12

- A relay (B) board has been added to boards whose numbers end in -11 and -12. (Boards ending in -11 and in -12 are the same boards.)

• See page 8 for Circuit Boards Location and page 45 for Semiconductor Lead Layouts.


1
2
3
4
5
6
7
A
B
C
D
RELAY(B) BOARD
(See Page 11)
TO INPUT BOARD CN301
K
(See Page 24)
TO SYSTEM BOARD CN804
C
(See Page 23)
TO SYSTEM BOARD CN801
E
(See Page 12)
TO POWER BOARD CN605
J
TO INPUT BOARD CN302
I
(See Page 11)
TO DOLBY BOARD CN502
L
(See Page 12)
CN552
CN551
CN6
CN9
CN8
CN5
CN4
CN3
CN2
CN1
CN7
09
H
TO DOLBY BOARD CN504
(See Page 12)
B
TO SYSTEM BOARD CN805
(See Page 24)
G
TO VOL BOARD CN528
(See Page 11)
D
TO SYSTEM BOARD CN802
(See Page 23)
F
TO SYSTEM BOARD
(See Page 23)

• Semiconductor Location

Ref. No.	Location
D-1	C-7
D-2	C-6
D-3	C-6
D-4	B-6
D-5	C-6
D-6	C-6
D-7	C-5
D-8	C-5
D-9	C-4
D-10	B-7
D-11	B-6
D-12	B-6
Q1	C-6
Q2	B-6
Q3	B-4
Q4	C-5
Q5	B-5
Q6	C-5
Q7	B-5
Q8	C-4
Q9	C-4
Q10	B-4
Q11	B-4
Q12	B-3
Q13	B-3
Q14	B-3
Q15	B-3
Q16	C-3
Q17	C-3
Q18	C-2
Q19	C-2
Q20	C-2
Q21	C-2
Q22	C-2
Q23	C-1
Q24	C-5
Q25	C-4
Q29	B-7
Q30	B-6
Q31	B-5

Note:

- o—— : parts extracted from the components side.
- ░ : Pattern on the side which is seen.

3-9. PRINTED WIRING BOARD — MAIN SECTION —

NOTE : US, CND, AEP, UK model Boards whose numbers last digit in -13 or later

- **See page 8 for Circuit Boards Location and page 45 for Semiconductor Lead Layouts.**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
A B C D E F G H I J K L M N O
LAST DIGIT - 14
[DOLBY BOARD]
LAST DIGIT - 13
[DOLBY BOARD]
[INPUT BOARD]
TO SYSTEM BOARD CN802 (See Page 43)
[VOL BOARD]
[RELAY BOARD]
TO SYSTEM BOARD CN805 (See Page 44)
(See Page 43) TO SYSTEM BOARD CN801
TO SYSTEM BOARD CN800 (See Page 44)
[TONE BOARD]
[POWER BOARD]
ACTIVE SUPER WOOFER
TWEETER CENTER
REAR SPEAKER
WOOFER FRONT/CENTER
TWEETER FRONT
[P.S BOARD]
8-CH ACTIVE SPEAKERS SYSTEM
TWEETER FRONT
WOOFER FRONT/CENTER
ACTIVE SUPER WOOFER
TWEETER CENTER
T901 POWER TRANSFORMER
(See Page 44) TO SYSTEM BOARD CN806
[FUSE BOARD]
US,CND MODEL
[OUTLET BOARD]
AEP,UK MODEL

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	D-2	IC641	F-21
D302	C-2	IC651	F-23
D303	D-2	IC661	F-26
D551	H-6	IC701	D-18
D671	H-17	IC702	I-21
D672	H-17	IC703	E-17
D673	H-17	IC704	F-18
D674	H-17	IC921	A-7○
D701	E-18	IC921	D-7●
D702	E-18	IC922	A-9○
D901	H-29	IC922	D-9●
D902	H-29	IC923	A-12○
D903	H-30	IC923	D-12●
D904	H-30	IC924	A-11○
D905	G-32	IC924	D-11●
D906	G-32	IC950	J-31
D907	F-35		
D908	F-35	Q301	F-5
D909	H-35	Q302	F-4
D910	H-36	Q303	E-6
D911	H-35	Q304	E-6
D912	H-36	Q321	I-9
D950	J-34	Q322	I-9
D951	K-32	Q323	I-9
D953	K-34	Q324	J-7
		Q325	I-7
IC301	E-5	Q326	I-7
IC302	E-5	Q327	I-13
IC303	E-3	Q328	H-13
IC304	E-4	Q329	H-13
IC322	I-8	Q330	F-11
IC323	I-9	Q331	F-12
IC324	I-12	Q332	F-12
IC325	G-12	Q460	H-23
IC326	G-8	Q461	H-23
IC327	G-8	Q462	H-23
IC328	I-13	Q463	H-23
IC329	G-12	Q551	G-6
IC330	H-12	Q601	J-17
IC351	M-10	Q611	J-19
IC361	I-21	Q621	J-23
IC362	I-21	Q631	J-25
IC364	J-25	Q641	H-21
IC461	G-22	Q651	H-24
IC501	F-14	Q661	H-27
IC502	I-14	Q671	H-17
IC503	H-10	Q672	G-17
IC525	G-3	Q701	F-17
IC601	K-18	Q950	K-35
IC611	K-21	Q951	J-35
IC621	K-23	Q952	K-34
IC631	K-26	Q953	J-34

○ : Last digit- 14
● : Last digit- 13

Note:
- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ░ : Pattern on the side which is seen. (component side)
- ░ : Pattern of the rear side. (conductor side)
- CND : Canadian model

3-10. SCHEMATIC DIAGRAM — MAIN SECTION —

NOTE : US, CND, AEP, UK model Boards whose numbers last digit in -13 or later

- **See page 46, 47 for IC Block Diagrams.**

Note:

- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ⊞ : nonflammable resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬▬ : B+ Line
- ▬ ▬ ▬ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark:A plug (input signal) is connected to the input jack J301.(operation LED D805 lights up.)
- Voltages are taken with a VOM (Input impedance10 MΩ).
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨: L-CH SIGNAL (ACTIVE SUPER WOOFER SPEAKER)
- CND: Canadian model

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31
32
33
34
35
A
B
C
D
E
F
G
H
I
J
K
IC301
IC302
IC304
IC303
AUTO SW DETECT
[INPUT BOARD]
(See Page 40)
TO SYSTEM BOARD CN801
D
E
C
B
A
[VOL BOARD]
MASTER VOLUME
IC525
VOLUME MOTOR DRIVER
TO SYSTEM BOARD CN805
(See Page 40)
[FRONT]
BALANCE
TREBLE
BASS
IC351
TONE AMP
[TONE BOARD]
[DOLBY BOARD]
IC326
AMP
IC327
MIX
IC322
IC323
Q321-323 SURROUND-3 SWITCH
Q324-326 DIRECT SWITCH
Q327-329 SURROUND-2 SWITCH
Q330-332 SURROUND-1 SWITCH
IC921
+12V REG
LAST DIGIT-14
IC922
-12V REG
LAST DIGIT-13
IC923
+6V REG
LAST DIGIT-14
IC924
-6V REG
IC501
DIGITAL DELAY
IC503
MATRIX DECODER
IC330
AMP LEVEL CONTROL
IC328
AMP
IC324
SWITCH
IC329
AMP
IC325
SWITCH
IC502
NOISE REDUCTION
[POWER BOARD]
IC361
L.P.F
IC362
AMP
IC364
H.P.F
IC702
MIX AMP
IC703
IC701
AMP LEVEL CONTROL
IC704
H.P.F
IC461
IC461(1/2) H.P.F
IC461(2/2) L.P.F
Q460 2SC2001 SWITCH
Q461 2SA1342
Q462,463 2SC3396 MUTE CONTROL
IC641
POWER AMP (SW)
Q641 2SC2001 MUTING
IC651
POWER AMP (CENTER)
Q651 2SC2001 MUTING
IC661
POWER AMP (REAR)
Q661 2SC2001 MUTING
IC601
POWER AMP (L-MF)
Q601 2SC2001 MUTING
IC611
POWER AMP (R-MF)
Q611 2SC2001 MUTING
IC621
POWER AMP (L-TW)
Q621 2SC2001 MUTING
IC631
POWER AMP (R-TW)
Q631 2SC2001 MUTING
Q671 2SA1342
Q672 2SC3396 MUTE SWITCH
ACTIVE SUPER WOOFER
SP901 L ch
SP902 R ch
TWEETER CENTER
SP903 L ch
SP904 R ch
SP905
REAR SPEAKER
IMPEDANCE USE 8 Ω ONLY
WOOFER FRONT CENTER
SP906 L ch
SP907 R ch
SP908 L ch
SP909 R ch
TWEETER FRONT
TO SYSTEM BOARD CN806
(See Page 40)
[RELAY BOARD]
Q551 RELAY SWITCH
[RS BOARD]
TS01 POWER TRANSFORMER
AEP,UK MODEL
US,CND MODEL
Q950,951 2SC1623 2SB1015 POWER ON SWITCH
IC950
REG
[FUSE BOARD]
Q952,953 2SC1623 2SC1815 DC-DC CONVERTER
[OUTLET BOARD]
AC OUTLET
US,CND MODEL

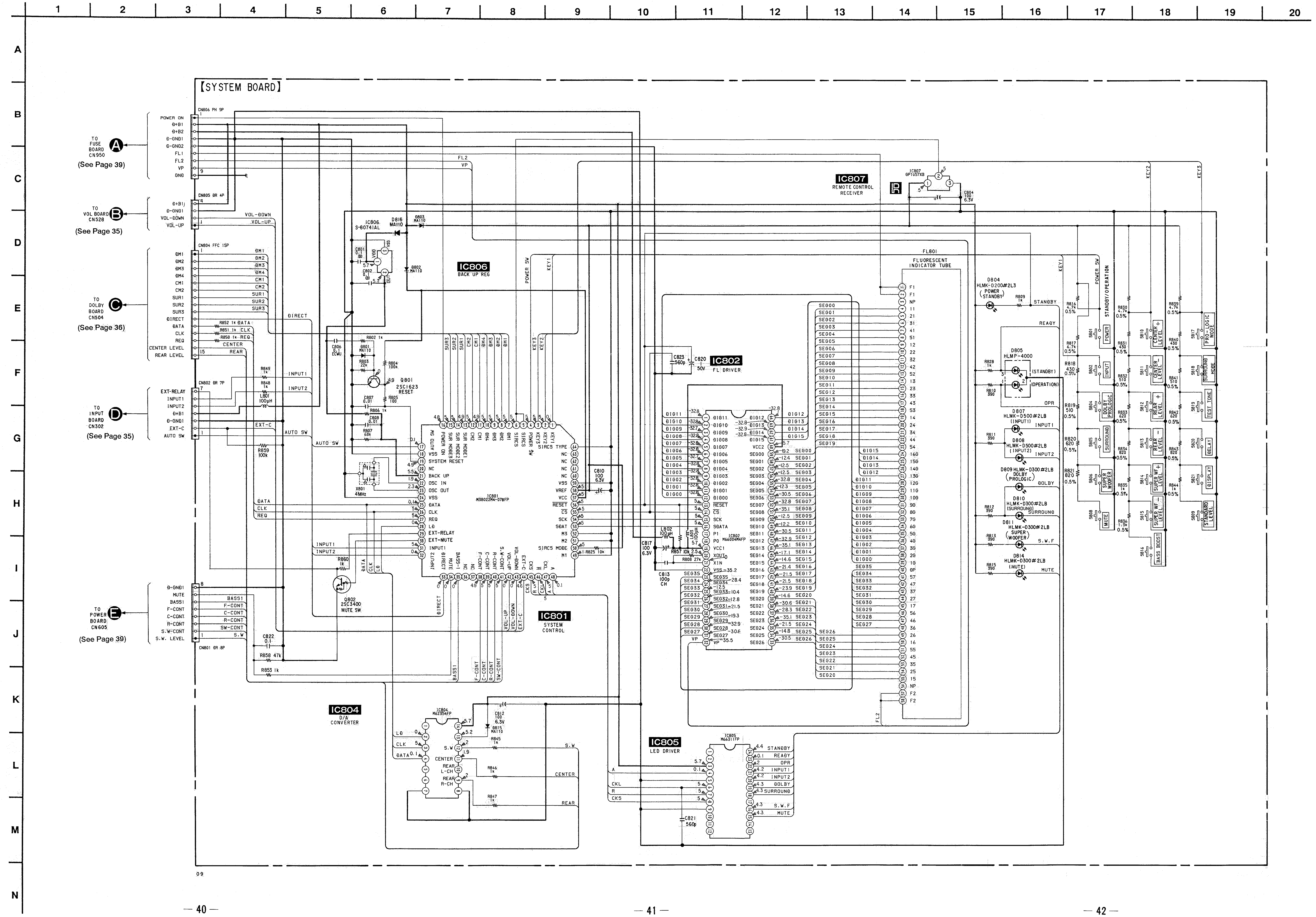
3-11. SCHEMATIC DIAGRAM — DISPLAY SECTION —

NOTE : US, CND, AEP, UK model Boards whose numbers last digit in -13 or later

- See page 46, 47 for IC Block Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- Δ : internal component.
- ▬▬▬ : B+ Line
- ▪▪▪▪▪ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark:A plug (input signal) is connected to the input jack J301.(operation LED D805 lights up.)
- Voltages are taken with a VOM (Input impedance10 Ω/V).
- Voltage variations may be noted due to normal production tolerances.

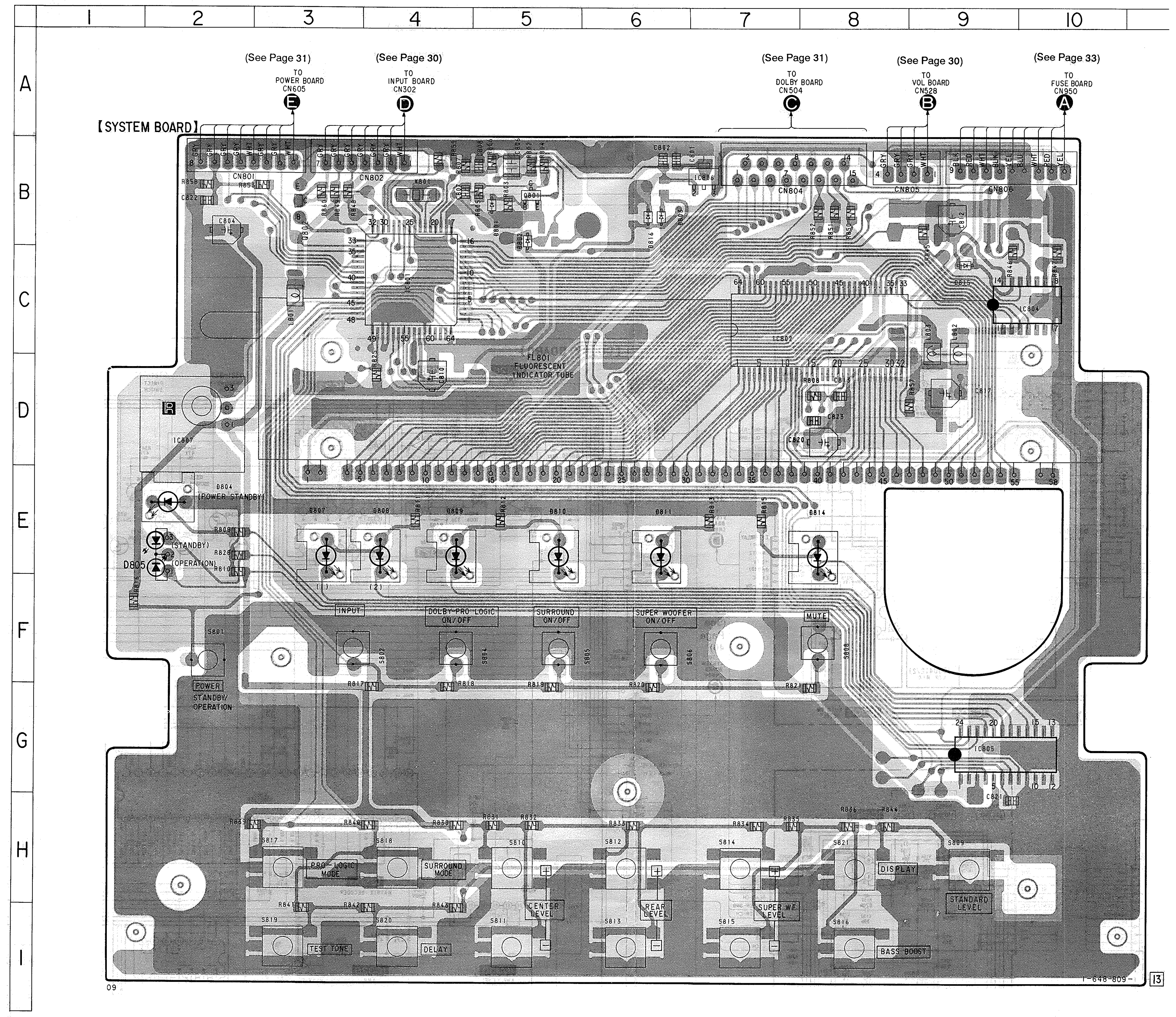


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
A B C D E F G H I J K L M N
[SYSTEM BOARD]
TO FUSE BOARD CN950 (See Page 39)
TO VOL BOARD CN528 (See Page 35)
TO DOLBY BOARD CN504 (See Page 36)
TO INPUT BOARD CN302 (See Page 35)
TO POWER BOARD CN605 (See Page 39)
IC807 REMOTE CONTROL RECEIVER
IC806 BACK UP REG
IC802 FL DRIVER
IC801 SYSTEM CONTROL
IC804 D/A CONVERTER
IC805 LED DRIVER
FL801 FLUORESCENT INDICATOR TUBE
Q801 2SC1623 RESET
Q802 2SC3400 MUTE SW
D804 HLMK-D200#2L3 (POWER STANDBY)
D805 HLMP-4000 (STANDBY) (OPERATION)
D807 HLMK-D500#2LB (INPUT1)
D808 HLMK-D500#2LB (INPUT2)
D809 HLMK-D500#2LB DOLBY (PROLOGIC)
D810 HLMK-D300#2LB (SURROUND)
D811 HLMK-D300#2LB (SUPER WOOFER)
D814 HLMK-D300#2LB (MUTE)
STANDBY READY OPR INPUT1 INPUT2 DOLBY SURROUND S.W.F MUTE
09

3-12. PRINTED WIRING BOARD — DISPLAY SECTION —

NOTE : US, CND, AEP, UK model Boards whose numbers last digit in -13 or later

- See page 8 for Circuit Boards Location and page 45 for Semiconductor Lead Layouts.



1 2 3 4 5 6 7 8 9 10
A B C D E F G H I
(See Page 31) TO POWER BOARD CN605 E
(See Page 30) TO INPUT BOARD CN302 D
(See Page 31) TO DOLBY BOARD CN504 C
(See Page 30) TO VOL BOARD CN528 B
(See Page 33) TO FUSE BOARD CN950 A
[SYSTEM BOARD]
FL801 FLUORESCENT INDICATOR TUBE
POWER STANDBY OPERATION
INPUT
DOLBY PRO LOGIC ON/OFF
SURROUND ON/OFF
SUPER WOOFER ON/OFF
MUTE
PRO LOGIC MODE
SURROUND MODE
CENTER LEVEL
REAR LEVEL
SUPER WF LEVEL
DISPLAY
STANDARD LEVEL
TEST TONE
DELAY
BASS BOOST
1-648-809- 13
09

• Semiconductor Location

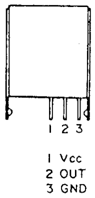
Ref. No.	Location
D801	B-5
D802	B-5
D803	B-6
D804	E-2
D805	E-2
D807	E-3
D808	E-4
D809	E-4
D810	E-5
D811	E-6
D814	E-8
D815	C-9
D816	B-6
IC801	C-4
IC802	C-7
IC804	C-10
IC805	G-9
IC806	B-7
IC807	D-2
Q801	B-5
Q802	B-3

Note:

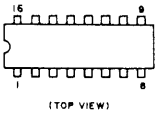
- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ░░ : Pattern on the side which is seen. (component side)
- ░░ : Pattern of the rear side. (conductor side)

3-13. SEMICONDUCTOR LEAD LAYOUTS

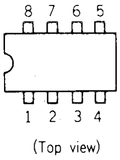
GP1U57XB


1 2 3
1 Vcc
2 OUT
3 GND

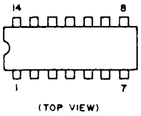
LA2730
M5283P


16
9
1
8
(TOP VIEW)

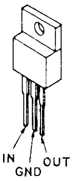
LB1639
NJM2072M


8 7 6 5
1 2 3 4
(Top view)

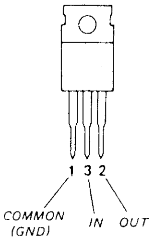
LC4966


14
8
1
7
(TOP VIEW)

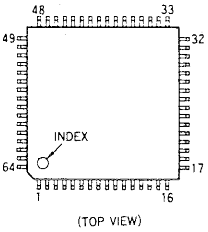
M5F7806
TA78057S
TA7812S



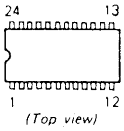
M5F7906
TA7912S


1 3 2
COMMON
(GND)
IN
OUT

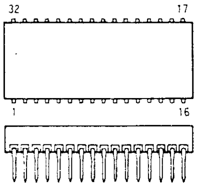
M38022M4-078FP


48
33
49
32
INDEX
64
17
1
16
(TOP VIEW)

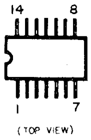
M50198P


24
13
1
12
(Top view)

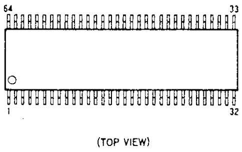
M5218AFP



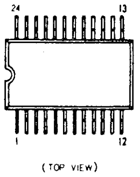
M62354FP


14
8
1
7
(TOP VIEW)

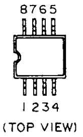
M66004M4FP


64
33
1
32
(TOP VIEW)

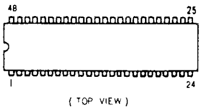
M66311FP


24
13
1
12
(TOP VIEW)

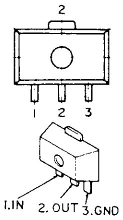
NJM5532MD


8765
1234
(TOP VIEW)

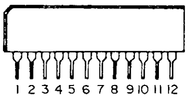
SSM2126A


48
25
1
24
(TOP VIEW)

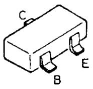
S-80750AL-EE


2
1 2 3
1.IN
2. OUT
3.GND

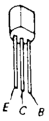
uPC2505H
uPC2505H (1)


1 2 3 4 5 6 7 8 9 10 11 12

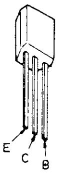
2SA1342
2SC1623-L5L6
2SC3396



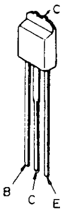
2SB1013-4
2SC2001-LK



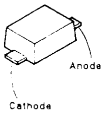
2SC1815-GR
2SC403SP



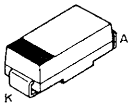
2SC3303-Y



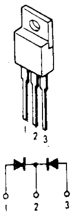
RD36S-B


Anode
Cathode

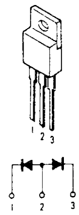
EC10DS2
EC11FS4



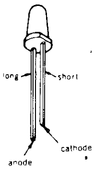
F10P20F



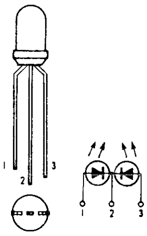
F10P20FR



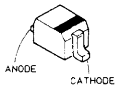
HLMK-D200#2LB
HLMK-D300#2LB
HLMK-D500#2LB


long
short
anode
cathode

HLMP-4000

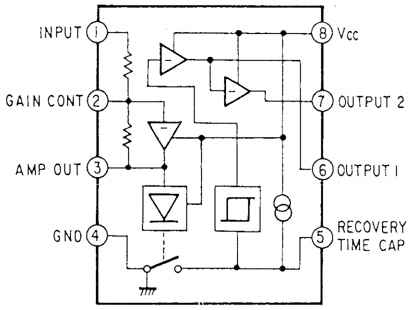


MA110

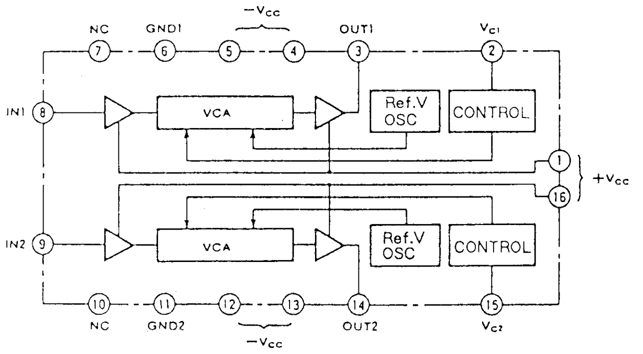

ANODE
CATHODE

3-14. IC BLOCK DIAGRAMS

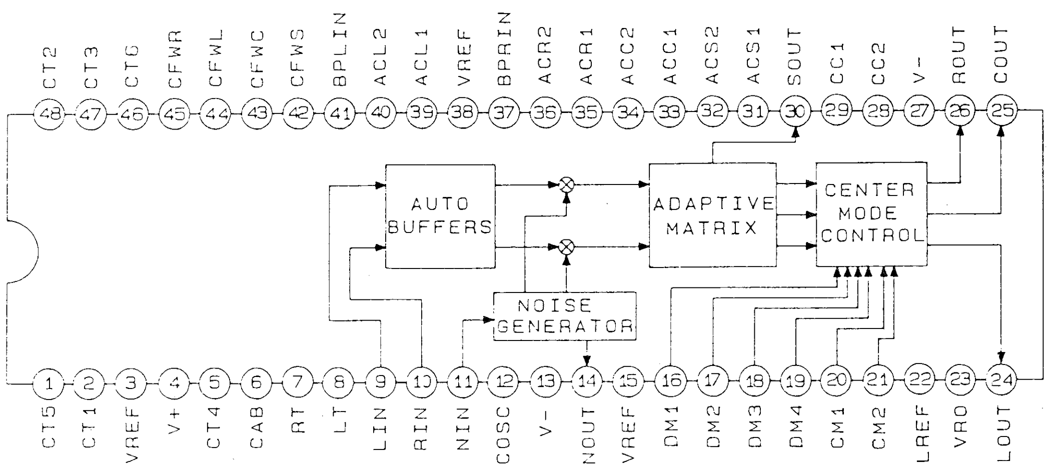
IC303 NJM2072M


INPUT
GAIN CONT
AMP OUT
GND
Vcc
OUTPUT 2
OUTPUT I
RECOVERY TIME CAP

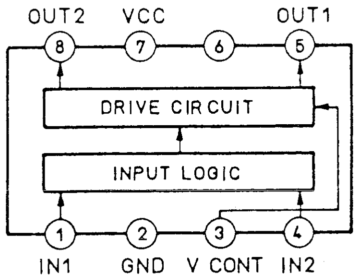
IC330, 701 M5283P


NC
GND1
−Vcc
OUT1
Vc1
IN1
VCA
Ref.V OSC
CONTROL
+Vcc
IN2
VCA
Ref.V OSC
CONTROL
NC
GND2
−Vcc
OUT2
Vc2

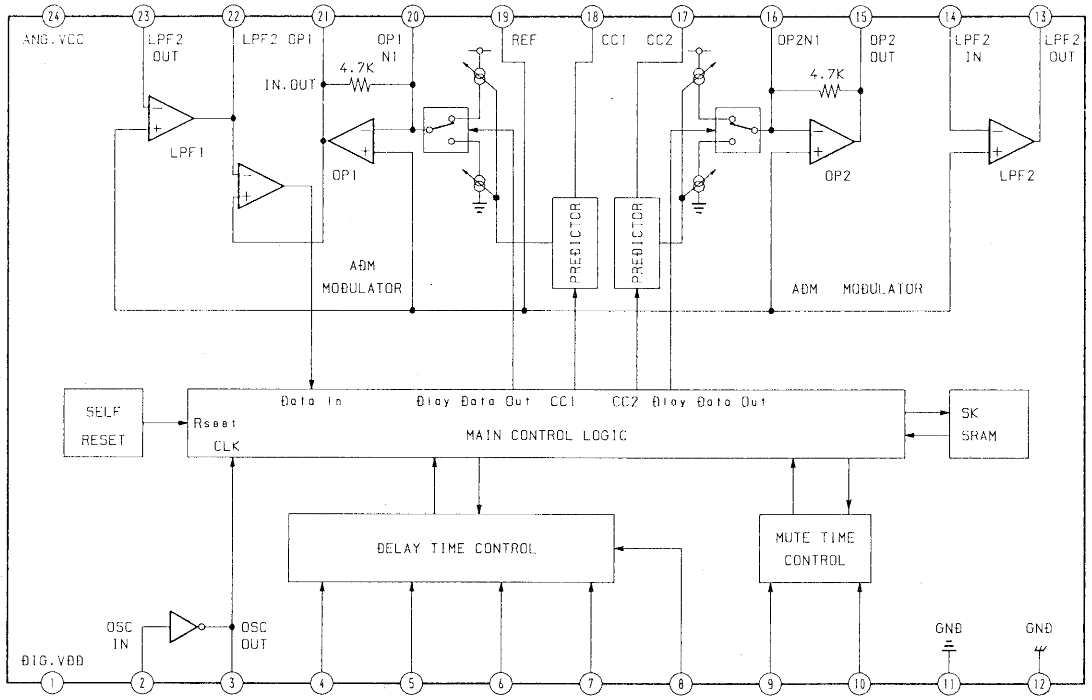
IC503 SSM2126


CT2
CT3
CT6
CFWR
CFWL
CFWC
CFWS
BPLIN
ACL2
ACL1
VREF
BPRIN
ACR2
ACR1
ACC2
ACC1
ACS2
ACS1
SOUT
CC1
CC2
V-
ROUT
COUT
AUTO BUFFERS
ADAPTIVE MATRIX
CENTER MODE CONTROL
NOISE GENERATOR
CT5
CT1
VREF
V+
CT4
CAB
RT
LT
LIN
RIN
NIN
COSC
V-
NOUT
VREF
DM1
DM2
DM3
DM4
CM1
CM2
LREF
VRO
LOUT

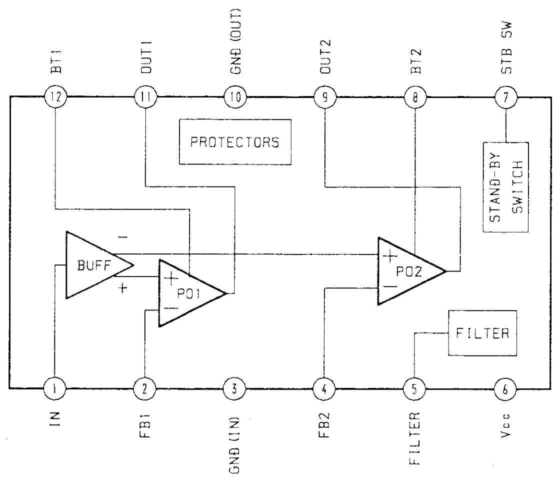
IC525 LB1639


OUT2
VCC
OUT1
DRIVE CIRCUIT
INPUT LOGIC
IN1
GND
V CONT
IN2

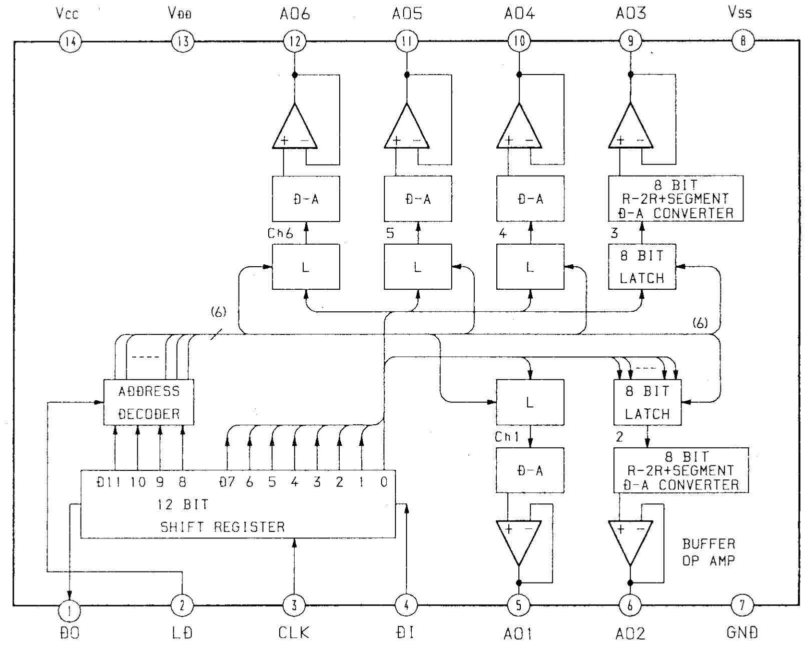
IC501 M50198P


ANG.VCC
LPF2 OUT
LPF2 OP1
OP1 N1
IN.OUT
4.7K
REF
CC1
CC2
OP2N1
OP2 OUT
4.7K
LPF2 IN
LPF2 OUT
LPF1
OP1
OP2
LPF2
PREDICTOR
PREDICTOR
ADM MODULATOR
ADM MODULATOR
SELF RESET
Reset
CLK
Data In
Dlay Data Out
CC1
CC2
Dlay Data Out
MAIN CONTROL LOGIC
SK
SRAM
DELAY TIME CONTROL
MUTE TIME CONTROL
OSC IN
OSC OUT
DIG.VDD
GND
GND

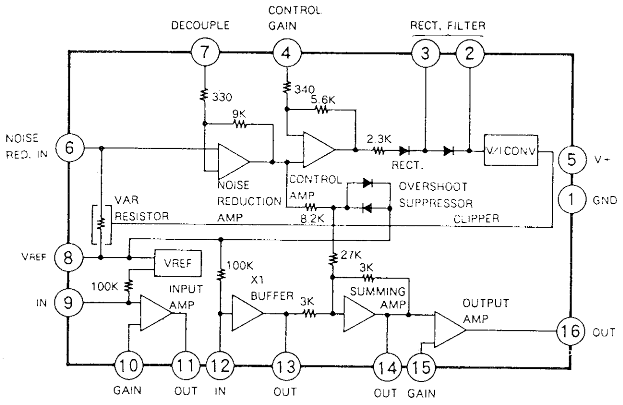
IC601, 611, 621, 631, 641, 651, 661 uPC2505H


BT1
OUT1
GND (OUT)
OUT2
BT2
STB SW
PROTECTORS
STAND-BY SWITCH
BUFF
PO1
PO2
FILTER
IN
FB1
GND (IN)
FB2
FILTER
Vcc

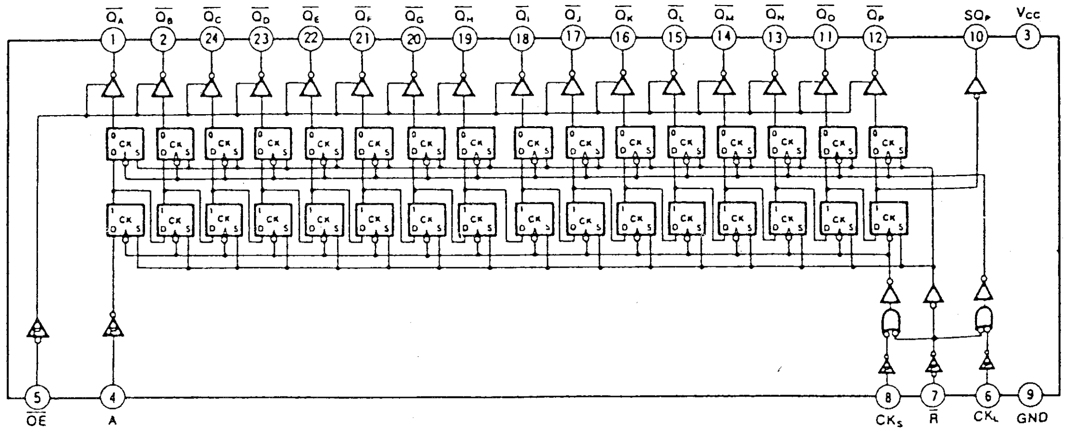
IC804 M62354FP


Vcc
VDD
AO6
AO5
AO4
AO3
Vss
D-A
D-A
D-A
8 BIT R-2R+SEGMENT D-A CONVERTER
Ch6
5
4
3
L
L
L
8 BIT LATCH
(6)
(6)
ADDRESS DECODER
L
8 BIT LATCH
Ch1
2
D11 10 9 8 D7 6 5 4 3 2 1 0
12 BIT SHIFT REGISTER
D-A
8 BIT R-2R+SEGMENT D-A CONVERTER
BUFFER OP AMP
DO
LD
CLK
DI
AO1
AO2
GND

IC502 LA2730K


DECOUPLE
CONTROL GAIN
RECT. FILTER
330
9K
340
5.6K
2.3K
RECT.
V/I CONV
NOISE RED. IN
V-
GND
NOISE REDUCTION AMP
CONTROL AMP
OVERSHOOT SUPPRESSOR
CLIPPER
VAR RESISTOR
8.2K
VREF
VREF
27K
3K
100K
100K
X1 BUFFER
3K
SUMMING AMP
INPUT AMP
OUTPUT AMP
IN
OUT
GAIN
OUT
IN
OUT
OUT
GAIN

IC805 M66311FP


QA
QB
QC
QD
QE
QF
QG
QH
QI
QJ
QK
QL
QM
QN
QO
QP
SQP
Vcc
OE
A
CKS
R
CKL
GND

SECTION 4
EXPLODED VIEWS

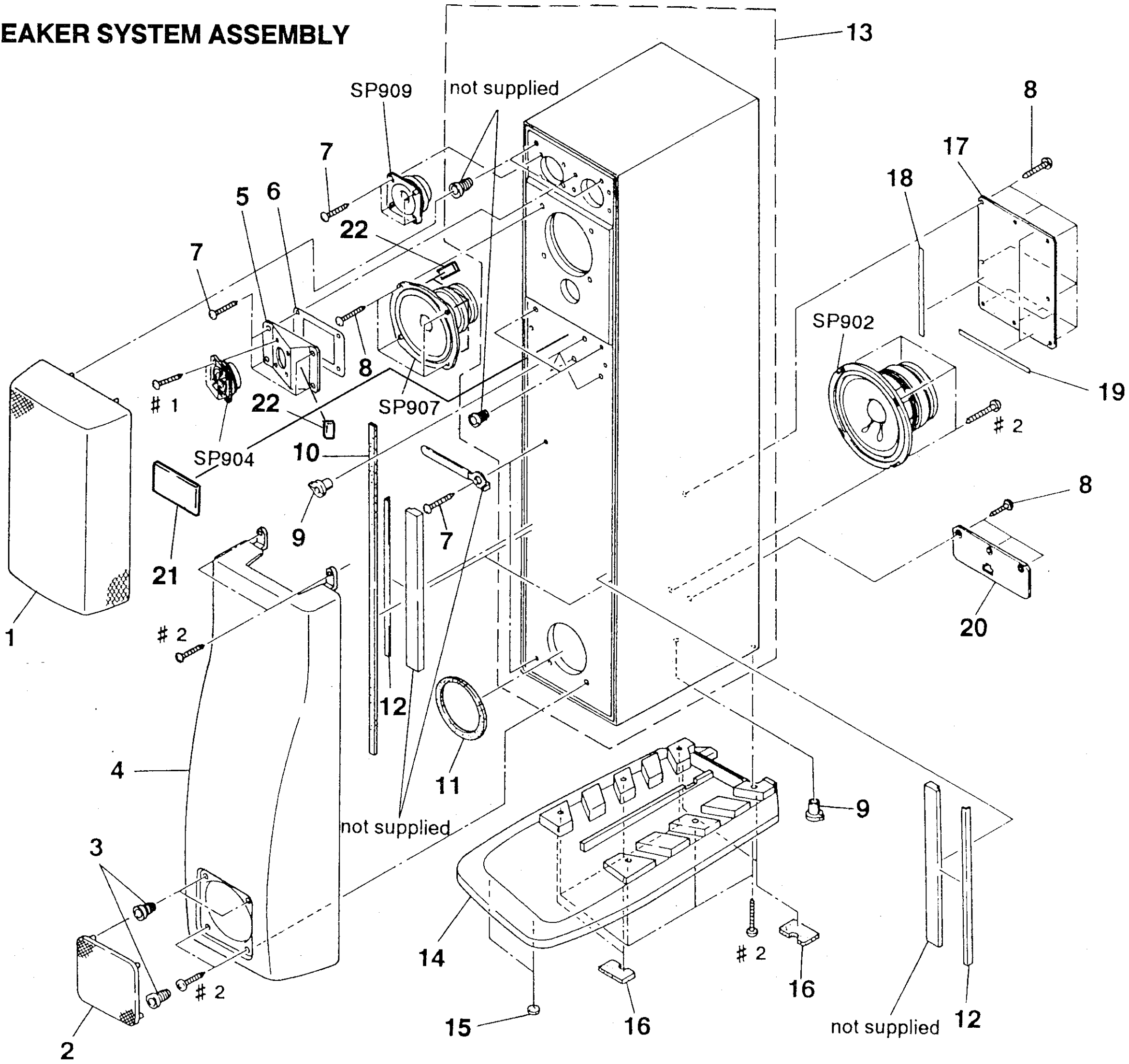
NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- US-11/12 : US model last digit-11/12.
  US-13 : US model last digit-13 or later.
- CND : Canadian model

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

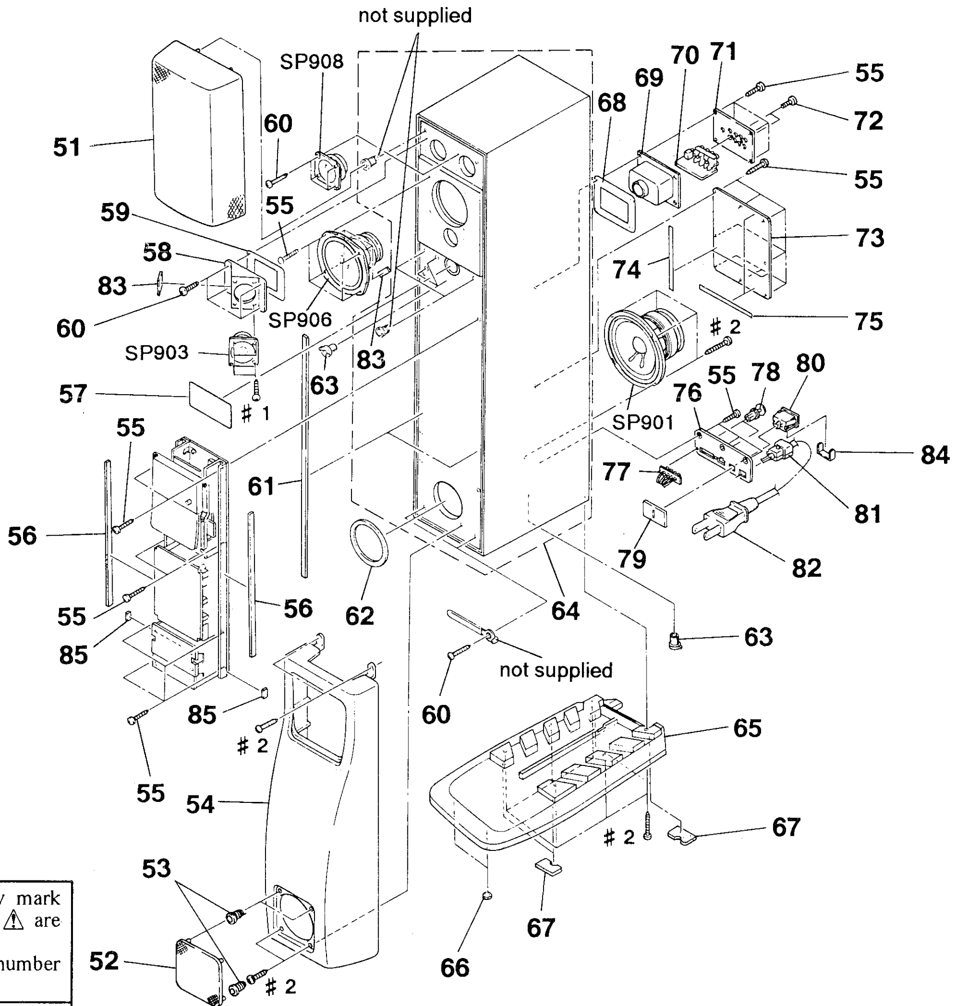
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

4-1. R SPEAKER SYSTEM ASSEMBLY



Ref.No.	Part No.	Description	Remark
1	X-4943-465-3	FRAME (A) ASSY, GRILLE	
2	X-4943-483-2	FRAME ASSY (B), GRILLE	
3	4-912-253-01	CATCHER	
4	4-957-211-12	PANEL (R), FRONT	
* 5	4-957-215-01	FRAME, TWEETER	
* 6	4-958-052-01	PACKING, TWEETER	
7	4-949-145-01	SCREW (3.5X18), TAPPING	
8	4-923-040-11	SCREW (4X16), TAPPING	
9	4-910-041-01	CLAMP	
* 10	4-959-065-02	PACKING (A)	
* 11	4-959-292-02	PACKING, DUCT	
* 12	4-959-109-22	PACKING (E)	
* 13	X-4943-462-3	CABINET (R) ASSY, SPEAKER (US, CND, UK)	
* 13	X-4944-174-1	CABINET (R) ASSY, SPEAKER (AEP)	
14	4-957-218-03	BASE	
15	4-959-293-12	CUSHION (B)	
16	4-959-293-02	CUSHION (A)	
* 17	4-957-217-01	BOARD (R), REAR	
* 18	4-959-109-01	PACKING (C)	
* 19	4-959-109-11	PACKING (D)	
* 20	4-958-568-01	TERMINAL BOARD (R)	
21	4-960-250-01	MASK (B)	
22	4-962-548-01	DAMPER	
SP902	1-504-277-11	SPEAKER (16CM)(ACTIVE SUPER WOOFER)	
SP904	1-504-276-11	SPEAKER (5CM)(TWEETER CENTER)	
SP907	1-504-275-11	SPEAKER (13CM)(WOOFER FRONT/CENTER)	
SP909	1-504-276-11	SPEAKER (5CM)(TWEETER FRONT)	

4-2. L SPEAKER SYSTEM ASSEMBLY

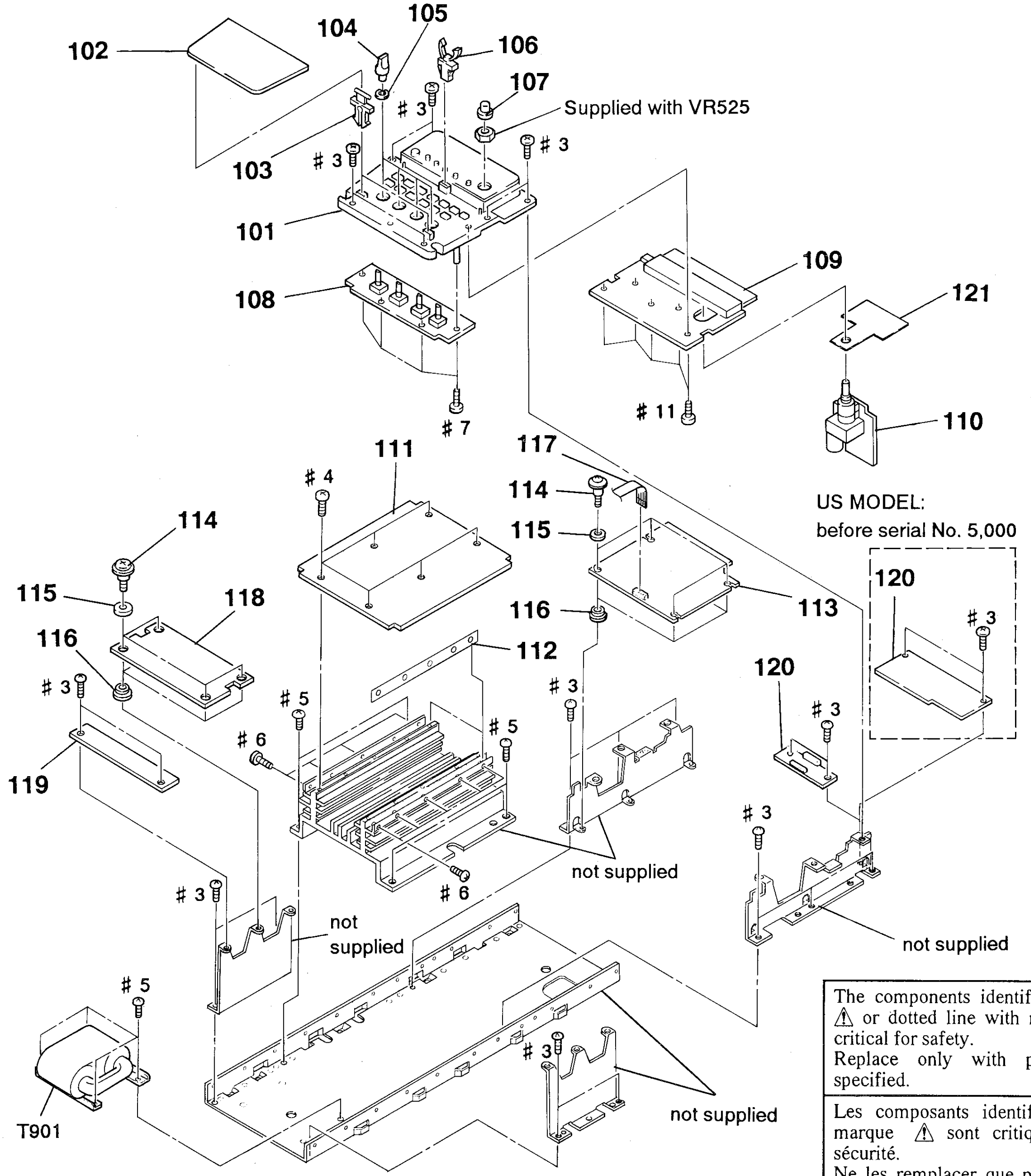


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
51	X-4943-465-3	FRAME (A) ASSY, GRILLE	
52	X-4943-483-2	FRAME ASSY (B), GRILLE	
53	4-912-253-01	CATCHER	
54	4-957-211-03	PANEL (L), FRONT	
55	4-923-040-01	SCREW (4X16), TAPPING	
* 56	4-959-066-01	PACKING (B)	
57	4-960-250-01	MASK (B)	
* 58	4-957-215-01	FRAME, TWEETER	
* 59	4-958-052-01	PACKING, TWEETER	
60	4-949-145-01	SCREW (3.5X18), TAPPING	
* 61	4-959-065-02	PACKING (A)	
* 62	4-959-292-02	PACKING, DUCT	
63	4-910-041-01	CLAMP	
* 64	X-4943-461-3	CABINET (L) ASSY, SPEAKER (US, CND, UK)	
* 64	X-4944-175-1	CABINET (L) ASSY, SPEAKER (AEP)	
65	4-957-218-03	BASE	
66	4-959-293-12	CUSHION (B)	
67	4-959-293-02	CUSHION (A)	
68	4-959-462-02	PACKING, TERMINAL BOARD	
* 69	4-958-255-01	COVER, TERMINAL FITTING	
* 70	A-4365-973-A	INPUT BOARD, COMPLETE (US-11/12)	
* 70	A-4365-088-A	INPUT BOARD, COMPLETE (US-13, CND, AEP, UK)	
* 71	4-958-254-02	TERMINAL BOARD	
72	3-703-685-21	SCREW (+BV 3X8)	
* 73	4-957-217-12	BOARD (L), REAR (US)	
* 73	4-957-217-21	BOARD (L), REAR (CND, AEP, UK)	
* 74	4-959-109-01	PACKING (C)	
* 75	4-959-109-11	PACKING (D)	
* 76	4-958-567-01	TERMINAL BOARD (L) (US, CND)	
* 76	4-958-567-21	TERMINAL BOARD (L) (AEP)	
* 76	4-958-567-31	TERMINAL BOARD (L) (UK)	
77	1-537-364-11	TARMINAL BOARD	
78	4-812-134-00	RIVET NYLON, 3.5	
* 79	1-648-813-11	OUTLET BOARD (US, CND)	
⚠80	1-526-882-00	OUTLET, AC (US, CND)	
81	4-916-783-01	BUSHING, CORD (US, CND)	
81	3-703-244-02	BUSHING, CORD (2104) (AEP, UK)	
⚠82	1-559-479-11	CORD, POWER (US, CND)	
⚠82	1-575-651-21	CORD, POWER (AEP)	
⚠82	1-696-571-11	CORD, POWER (UK)	
83	4-962-548-01	DAMPER	
84	4-960-943-01	STOPPER	
85	4-961-141-01	CUSHION (D)	
SP901	1-504-277-11	SPEAKER (16CM) (ACTIVE SUPER WOOFER)	
SP903	1-504-276-11	SPEAKER (5CM) (TWEETER CENTER)	
SP906	1-504-275-11	SPEAKER (13CM) (WOOFER FRONT/CENTER)	
SP908	1-504-276-11	SPEAKER (5CM) (TWEETER FRONT)	

4-3. AMPLIFIER BLOCK ASSEMBLY

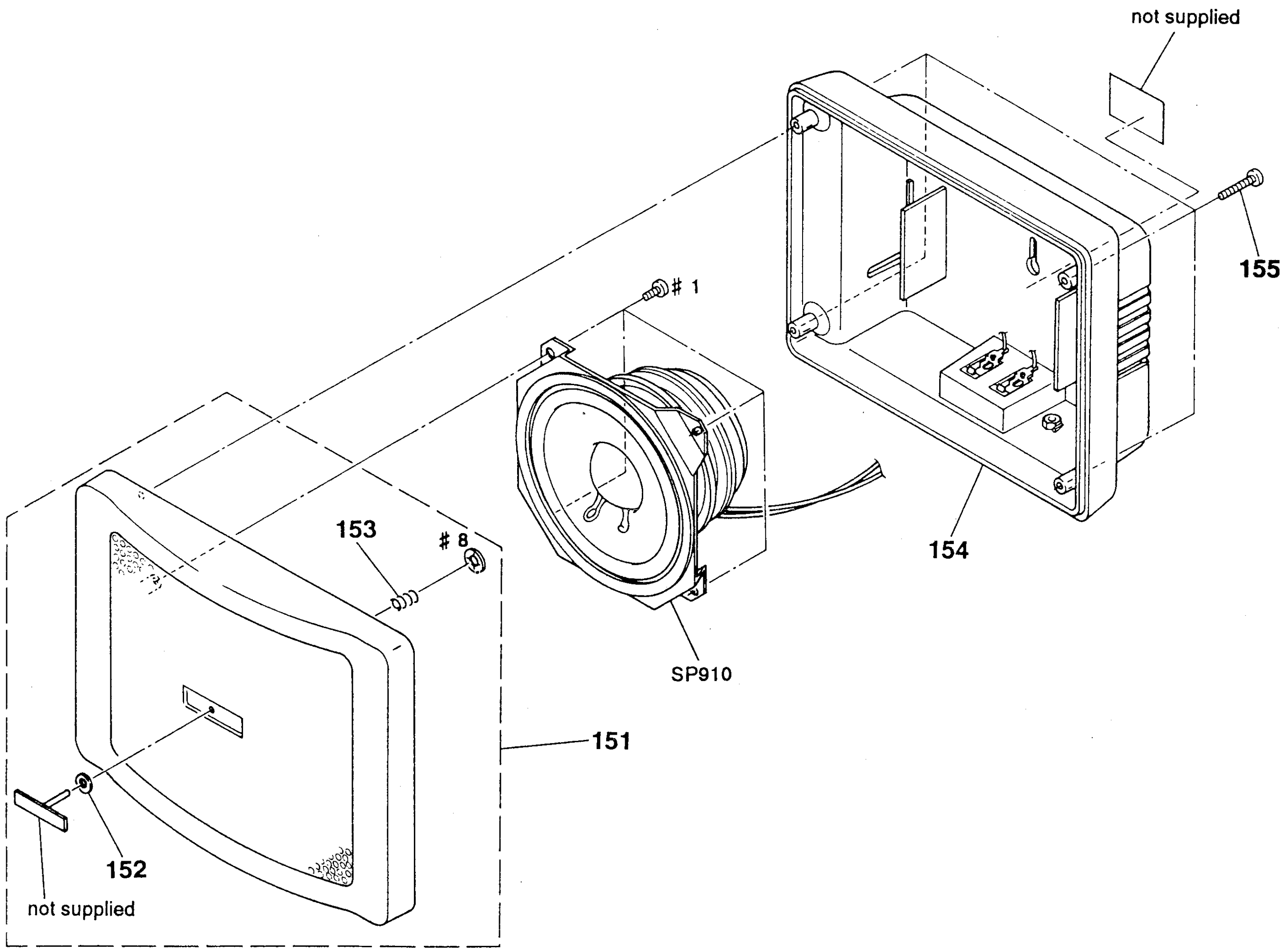

102
104
105
106
107
Supplied with VR525
# 3
103
# 3
# 3
101
108
109
121
110
# 11
# 7
111
117
# 4
114
115
116
113
US MODEL:
before serial No. 5,000
120
# 3
114
115
118
116
112
120
# 3
# 3
# 5
# 5
# 6
119
not supplied
# 6
# 3
# 3
not
supplied
not supplied
# 5
# 3
T901
not supplied

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	X-4943-577-4	PANEL ASSY, CONTROL	
102	X-4943-922-2	COVER ASSY	
103	3-662-365-00	SHAFT (S), DOOR	
104	4-908-097-21	KNOB	
105	3-350-440-01	SPRING	
106	4-392-036-01	CATCHER, PUSH	
107	4-954-979-21	KNOB (18)	
* 108	A-4365-987-A	TONE BOARD, COMPLETE(US-11/12)	
* 108	A-4365-096-A	TONE BOARD, COMPLETE (US-13, CND, AEP, UK)	
* 109	A-4365-975-A	SYSTEM BOARD, COMPLETE(US-11/12)	
* 109	A-4365-090-A	SYSTEM BOARD, COMPLETE (US-13, CND, AEP, UK)	
* 110	1-648-812-11	VOL BOARD	
* 111	A-4365-985-A	POWER BOARD, COMPLETE(US-11/12)	
* 111	A-4365-086-A	POWER BOARD, COMPLETE (US-13, CND, AEP, UK)	
112	4-959-072-01	SHEET, INSULATING	
* 113	A-4365-981-A	DOLBY BOARD, COMPLETE(US-11/12)	
* 113	A-4365-098-A	DOLBY BOARD, COMPLETE(US-13)	
* 113	A-4365-739-A	DOLBY BOARD, COMPLETE(CND)	
* 113	A-4365-738-A	DOLBY BOARD, COMPLETE(AEP, UK)	
114	4-959-869-01	SCREW (STEP)(M3X6)	
115	4-959-684-01	DAMPER (B)	
116	4-959-683-01	DAMPER (A)	
117	1-751-407-11	WIRE, PARALLEL (FFC)(15 CORE)	
* 118	A-4365-979-A	PS BOARD, COMPLETE(US-11/12)	
* 118	A-4365-094-A	PS BOARD, COMPLETE(US-13, CND)	
* 118	A-4365-559-A	PS BOARD, COMPLETE(AEP, UK)	
* 119	A-4365-989-A	FUSE BOARD, COMPLETE(US-11/12)	
* 119	A-4365-129-A	FUSE BOARD, COMPLETE (US-13, CND, AEP, UK)	
* 120	A-4365-983-A	RELAY(B)BOARD, COMPLETE(US-11/12)	
* 120	1-648-817-11	RELAY BOARD(US-13, CND, AEP, UK)	
121	4-960-723-01	PLATE, SHIELD	
⚠T901	1-423-687-12	TRANSFORMER, POWER (US, CND)	
⚠T901	1-423-884-11	TRANSFORMER, POWER (AEP)	
⚠T901	1-423-885-11	TRANSFORMER, POWER (UK)	

4-4. REAR SPEAKER SYSTEM ASSEMBLY (SS-SR300)


not supplied
155
# 1
154
153
# 8
SP910
151
152
not supplied

Ref. No.	Part No.	Description	Remark
151	X-4943-729-1	PANEL ASSY, FRONT	
152	3-701-438-11	WASHER, 2.5	
153	9-910-999-31	SPRING, COMPRESSION	
154	X-4943-730-1	CABINET ASSY, SPEAKER	
155	4-929-125-01	SCREW (M4X16), TAPPING	
SP910	1-504-299-11	SPEAKER (10CM) (REAR)	

DOLBY

US model : Last digit – 11 , 12

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Hardware (# mark) list is given in the last of this parts list.
- CND : Canadian model

Ref.No.	Part No.	Description				Remark
*	A-4365-981-A	DOLBY BOARD, COMPLETE ********************				
		< CAPACITOR >				
C321	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C322	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C323	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C325	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C327	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C328	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C333	1-126-059-11	ELECT	10uF	20%	50V	
C334	1-126-059-11	ELECT	10uF	20%	50V	
C335	1-126-059-11	ELECT	10uF	20%	50V	
C336	1-126-059-11	ELECT	10uF	20%	50V	
C501	1-123-369-00	ELECT	4.7uF	20%	50V	
C502	1-136-169-00	FILM	0.22uF	5%	50V	
C503	1-136-169-00	FILM	0.22uF	5%	50V	
C504	1-126-059-11	ELECT	10uF	20%	50V	
C505	1-136-153-00	FILM	0.01uF	5%	50V	
C506	1-136-153-00	FILM	0.01uF	5%	50V	
C507	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C508	1-136-153-00	FILM	0.01uF	5%	50V	
C509	1-126-101-11	ELECT	100uF	20%	16V	
C510	1-136-165-00	FILM	0.1uF	5%	50V	
C511	1-136-165-00	FILM	0.1uF	5%	50V	
C512	1-136-157-00	FILM	0.022uF	5%	50V	
C513	1-136-157-00	FILM	0.022uF	5%	50V	
C514	1-137-298-11	FILM CHIP	0.022uF	5%	16V	
C515	1-137-280-91	FILM CHIP	680PF	5%	16V	
C516	1-137-298-11	FILM CHIP	0.022uF	5%	16V	
C517	1-137-280-91	FILM CHIP	680PF	5%	16V	
C518	1-136-171-00	FILM	0.33uF	5%	50V	
C519	1-136-171-00	FILM	0.33uF	5%	50V	
C520	1-136-171-00	FILM	0.33uF	5%	50V	
C521	1-136-171-00	FILM	0.33uF	5%	50V	
C522	1-136-169-00	FILM	0.22uF	5%	50V	
C523	1-136-169-00	FILM	0.22uF	5%	50V	
C524	1-123-369-00	ELECT	4.7uF	20%	50V	
C525	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C526	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C527	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C528	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C529	1-126-101-11	ELECT	100uF	20%	16V	

Ref.No.	Part No.	Description				Remark
C530	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C531	1-124-122-11	ELECT	100uF	20%	50V	
C532	1-123-369-00	ELECT	4.7uF	20%	50V	
C533	1-137-294-11	FILM CHIP	0.01uF	5%	16V	
C534	1-123-369-00	ELECT	4.7uF	20%	50V	
C535	1-104-536-11	FILM CHIP	560PF	5%	50V	
C536	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C537	1-104-548-91	FILM CHIP	0.0056uF	5%	16V	
C538	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C539	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C540	1-124-910-11	ELECT	47uF	20%	50V	
C541	1-137-306-11	FILM CHIP	0.1uF	5%	16V	
C542	1-104-539-11	FILM CHIP	0.001uF	5%	50V	
C543	1-104-544-91	FILM CHIP	0.0027uF	5%	50V	
C544	1-123-369-00	ELECT	4.7uF	20%	50V	
C545	1-124-122-11	ELECT	100uF	20%	50V	
C546	1-136-171-00	FILM	0.33uF	5%	50V	
C547	1-136-165-00	FILM	0.1uF	5%	50V	
C548	1-124-791-11	ELECT	1.0uF	20%	100V	
C549	1-104-547-11	FILM CHIP	0.0047uF	5%	16V	
C550	1-104-557-91	FILM CHIP	0.033uF	5%	16V	
C551	1-104-556-11	FILM CHIP	0.027uF	5%	16V	
C552	1-126-233-11	ELECT	22uF	20%	50V	
C553	1-124-122-11	ELECT	100uF	20%	50V	
C554	1-124-791-11	ELECT	1.0uF	20%	100V	
C555	1-124-791-11	ELECT	1.0uF	20%	100V	
C556	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C557	1-104-550-91	FILM CHIP	0.0082uF	5%	16V	
C558	1-162-291-31	CERAMIC	560PF	10%	50V	
C914	1-126-103-11	ELECT	470uF	20%	16V	
C915	1-126-103-11	ELECT	470uF	20%	16V	
C916	1-126-101-11	ELECT	100uF	20%	16V	
C917	1-126-101-11	ELECT	100uF	20%	16V	
		< CONNECTOR >				
* CN501	1-564-505-11	PLUG, CONNECTOR 2P				
* CN502	1-564-512-11	PLUG, CONNECTOR 9P				
* CN503	1-564-510-11	PLUG, CONNECTOR 7P				
CN504	1-569-932-11	SOCKET, CONNECTOR 15P				
* CN505	1-564-507-11	PLUG, CONNECTOR 4P				
* CN506	1-564-507-11	PLUG, CONNECTOR 4P				

< IC >

Ref.No.	Part No.	Description	Remark
IC322	8-759-801-01	IC LC4966	
IC323	8-759-801-01	IC LC4966	
IC324	8-759-801-01	IC LC4966	
IC325	8-759-801-01	IC LC4966	
IC326	8-759-636-55	IC M5218AFP	
IC327	8-759-636-55	IC M5218AFP	
IC328	8-759-636-55	IC M5218AFP	
IC329	8-759-636-55	IC M5218AFP	
IC330	8-759-635-26	IC M5283P	
IC501	8-759-633-83	IC M50198P	
IC502	8-759-823-24	IC LA2730	
IC503	8-759-512-93	IC SSM2126	
IC921	8-759-231-58	IC M5F7812L	
IC922	8-759-245-86	IC TA7912S	
IC923	8-759-604-84	IC M5F7806	
IC924	8-759-604-85	IC M5F7906	

< COIL >

Ref.No.	Part No.	Description	Remark
L501	1-410-216-41	INDUCTOR 100uH	

< TRANSISTOR >

Ref.No.	Part No.	Description	Remark
Q321	8-729-805-43	TRANSISTOR 2SC3396	
Q322	8-729-805-67	TRANSISTOR 2SA1342	
Q323	8-729-805-43	TRANSISTOR 2SC3396	
Q324	8-729-805-43	TRANSISTOR 2SC3396	
Q325	8-729-805-67	TRANSISTOR 2SA1342	
Q326	8-729-805-43	TRANSISTOR 2SC3396	
Q327	8-729-805-43	TRANSISTOR 2SC3396	
Q328	8-729-805-67	TRANSISTOR 2SA1342	
Q329	8-729-805-43	TRANSISTOR 2SC3396	
Q330	8-729-805-43	TRANSISTOR 2SC3396	
Q331	8-729-805-67	TRANSISTOR 2SA1342	
Q332	8-729-805-43	TRANSISTOR 2SC3396	

< RESISTOR >

Ref.No.	Part No.	Description	Remark
R321	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R322	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R324	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R325	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R326	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R327	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R328	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R329	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R330	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R331	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R332	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R333	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R334	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R335	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R336	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R337	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R338	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R339	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R340	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R341	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R342	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R343	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R344	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R345	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R346	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R347	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R349	1-249-441-11	CARBON 100K 5% 1/4W	F
R350	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R360	1-249-429-11	CARBON 10K 5% 1/4W	F
R501	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R502	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R503	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R504	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R505	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R506	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R507	1-208-291-91	METAL GLAZE 4.7M 5% 1/10W	
R508	1-208-291-91	METAL GLAZE 4.7M 5% 1/10W	
R509	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R510	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R511	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R512	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R513	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R514	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R515	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R516	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R517	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R518	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R519	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R520	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R521	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R522	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R523	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R524	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R525	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R526	1-216-063-00	METAL CHIP 3.9K 5% 1/10W	
R527	1-216-107-00	METAL CHIP 270K 5% 1/10W	
R528	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R529	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R531	1-216-031-00	METAL CHIP 180 5% 1/10W	
R532	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R533	1-216-107-00	METAL CHIP 270K 5% 1/10W	
R534	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R535	1-216-073-00	METAL CHIP 10K 5% 1/10W	

DOLBY FUSE INPUT

US model: Last digit – 11, 12

Ref. No.	Part No.	Description	Remark
R536	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R537	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R538	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R539	1-249-432-11	CARBON 18K 5% 1/4W	F
		< VIBRATOR >	
X501	1-567-818-21	VIBRATOR, CERAMIC (3.58MHz)	
**********	**********	************************************	******
*	A-4365-989-A	FUSE BOARD, COMPLETE ********************	
*	4-363-146-21	HEAT SINK, V.OUT	
		< CAPACITOR >	
C950	1-124-473-11	ELECT 1000uF 20% 10V	
C951	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C953	1-163-135-00	CERAMIC CHIP 560PF 5% 50V	
C954	1-124-907-11	ELECT 10uF 20% 50V	
C955	1-124-910-11	ELECT 47uF 20% 50V	
C956	1-124-472-11	ELECT 470uF 20% 10V	
		< CONNECTOR >	
* CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
* CN902	1-564-321-00	PIN, CONNECTOR 2P	
* CN950	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P	
* CN951	1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D950	8-719-404-46	DIODE MA110	
D951	8-719-033-28	DIODE EC11FS4	
D952	8-719-404-46	DIODE MA110	
D953	8-719-158-82	DIODE RD36SB	
		< IC >	
IC950	8-759-158-62	IC TA78057S	
		< TRANSISTOR >	
Q950	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q951	8-729-801-84	TRANSISTOR 2SB1013-4	
Q952	8-729-202-37	TRANSISTOR 2SC3303-Y	
Q953	8-729-281-52	TRANSISTOR 2SC1815-Y	
		< RESISTOR >	
R950	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R951	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R952	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R953	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R954	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R955	1-216-025-00	METAL CHIP 100 5% 1/10W	
R956	1-216-015-00	METAL CHIP 39 5% 1/10W	
R957	1-216-025-00	METAL CHIP 100 5% 1/10W	
R958	1-216-077-00	METAL CHIP 15K 5% 1/10W	
		< TRANSFORMER >	
⚠T950	1-423-725-11	TRANSFORMER, DC-DC CONVERTER	
**********	**********	************************************	******
*	A-4365-973-A	INPUT BOARD, COMPLETE ********************	
		< CAPACITOR >	
C101	1-123-369-00	ELECT 4.7uF 20% 50V	
C201	1-123-369-00	ELECT 4.7uF 20% 50V	
C301	1-124-122-11	ELECT 100uF 20% 50V	
C302	1-124-122-11	ELECT 100uF 20% 50V	
C303	1-163-127-00	CERAMIC CHIP 270PF 5% 50V	
C304	1-136-157-00	FILM 0.022uF 5% 50V	
C305	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C306	1-124-903-11	ELECT 1uF 20% 50V	
C307	1-124-907-11	ELECT 10uF 20% 50V	
C308	1-164-159-11	CERAMIC 0.1uF 50V	
C310	1-164-159-11	CERAMIC 0.1uF 50V	
C369	1-124-443-00	ELECT 100uF 20% 10V	
C401	1-123-369-00	ELECT 4.7uF 20% 50V	
C402	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C403	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
		< CONNECTOR >	
* CN301	1-564-512-11	PLUG, CONNECTOR 9P	
* CN302	1-564-341-11	PIN, CONNECTOR 7P	
		< DIODE >	
D301	8-719-404-46	DIODE MA110	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-911-19	DIODE 1SS119	
		< IC >	
IC301	8-759-801-01	IC LC4966	
IC302	8-759-636-55	IC M5218AFP	
IC303	8-759-701-51	IC NJM2072M	
IC304	8-759-636-55	IC M5218AFP	
		< JACK >	
J301	1-573-070-11	JACK, PIN 4P (INPUT 1 IN/OUT)	
J302	1-573-070-11	JACK, PIN 4P (INPUT 2 IN/OUT)	
J303	1-750-709-11	JACK, PIN (CENTER OUT)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
		< JUMPER RESISTOR >	
JP302	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< TRANSISTOR >	
Q301	8-729-805-67	TRANSISTOR 2SA1342	
Q302	8-729-805-43	TRANSISTOR 2SC3396	
Q303	8-729-805-67	TRANSISTOR 2SA1342	
Q304	8-729-805-43	TRANSISTOR 2SC3396	
Q305	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q306	8-729-805-67	TRANSISTOR 2SA1342	
Q307	8-729-805-43	TRANSISTOR 2SC3396	
		< RESISTOR >	
R101	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R102	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R103	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R104	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R105	1-216-090-00	METAL CHIP 51K 5% 1/10W	
R201	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R202	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R203	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R204	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R205	1-216-090-00	METAL CHIP 51K 5% 1/10W	
R301	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R302	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R303	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R304	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R305	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R306	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R309	1-216-079-00	METAL CHIP 18K 5% 1/10W	
R310	1-216-079-00	METAL CHIP 18K 5% 1/10W	
R311	1-249-441-11	CARBON 100K 5% 1/4W	F
R312	1-249-437-11	CARBON 47K 5% 1/4W	F
R401	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R402	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R403	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R404	1-216-041-00	METAL CHIP 470 5% 1/10W	
R405	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R406	1-216-049-00	METAL CHIP 1K 5% 1/10W	

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Ref.No.	Part No.	Description	Remark
*	1-648-813-11	OUTLET BOARD ************	
		< CONNECTOR >	
* CN953	1-564-321-00	PIN, CONNECTOR 2P	
* CN954	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	

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Ref.No.	Part No.	Description	Remark
*	A-4365-979-A	P.S BOARD, COMPLETE ******************	
*	3-309-144-21	HEAT SINK	
*	4-363-146-21	HEAT SINK, V.OUT	
	4-924-264-01	TERMINAL, MOUNT	
		< CAPACITOR >	
C901	1-136-165-00	FILM 0.1uF 5% 50V	
C902	1-136-165-00	FILM 0.1uF 5% 50V	
C903	1-136-165-00	FILM 0.1uF 5% 50V	
C904	1-136-165-00	FILM 0.1uF 5% 50V	
C905	1-136-165-00	FILM 0.1uF 5% 50V	
C906	1-136-165-00	FILM 0.1uF 5% 50V	
C907	1-136-165-00	FILM 0.1uF 5% 50V	
C908	1-136-165-00	FILM 0.1uF 5% 50V	
C909	1-124-556-11	ELECT 2200uF 20% 16V	
C910	1-104-933-11	CAP, ELECT 8200uF	
C911	1-125-745-11	ELECT 8200uF 20% 25V	
C912	1-124-563-11	ELECT 2200uF 20% 25V	
C913	1-124-563-11	ELECT 2200uF 20% 25V	
		< CONNECTOR >	
* CN903	1-564-905-11	PIN, CONNECTOR 9P	
* CN904	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P	
* CN905	1-564-242-00	PIN, CONNECTOR 5P	
* CN906	1-564-243-00	PIN, CONNECTOR 6P	
* CN907	1-564-507-11	PLUG, CONNECTOR 4P	
* CN908	1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D901	8-719-210-33	DIODE EC10DS2	
D902	8-719-210-33	DIODE EC10DS2	
D903	8-719-210-33	DIODE EC10DS2	
D904	8-719-210-33	DIODE EC10DS2	
D905	8-719-210-30	DIODE F10P20F(R)	
D906	8-719-210-38	DIODE F10P20FR	
D907	8-719-210-30	DIODE F10P20F(R)	
D908	8-719-210-38	DIODE F10P20FR	
D909	8-719-210-33	DIODE EC10DS2	
D910	8-719-210-33	DIODE EC10DS2	
D911	8-719-210-33	DIODE EC10DS2	
D912	8-719-210-33	DIODE EC10DS2	
		< FUSE >	
⚠F901	1-532-781-11	FUSE, MICRO 3.15A 125V	
⚠F902	1-532-781-11	FUSE, MICRO 3.15A 125V	
⚠F903	1-532-782-11	FUSE, MICRO (SECONDARY) 4A 125V	
⚠F904	1-532-781-11	FUSE, MICRO 3.15A 125V	
⚠F905	1-532-781-11	FUSE, MICRO 3.15A 125V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

P.S POWER

US model: Last digit – 11, 12

Ref.No.	Part No.	Description			Remark
⚠F906	1-532-781-11	FUSE, MICRO	3.15A		125V
⚠F907	1-532-781-11	FUSE, MICRO	3.15A		125V
⚠F908	1-532-781-11	FUSE, MICRO	3.15A		125V
⚠F909	1-532-781-11	FUSE, MICRO	3.15A		125V
⚠F910	1-532-781-11	FUSE, MICRO	3.15A		125V
⚠F920	1-576-260-51	FUSE, MICRO (SECONDARY)	10A		125V
⚠F921	1-576-260-51	FUSE, MICRO (SECONDARY)	10A		125V

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* A-4365-985-A POWER BOARD, COMPLETE

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< CAPACITOR >

Ref.No.	Part No.	Description			Remark
C161	1-137-291-91	FILM CHIP	0.0056uF	5%	16V
C162	1-137-280-91	FILM CHIP	680PF	5%	16V
C164	1-216-295-00	METAL CHIP	0	5%	1/10W
C165	1-216-295-00	METAL CHIP	0	5%	1/10W
C166	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C167	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C261	1-137-291-91	FILM CHIP	0.0056uF	5%	16V
C262	1-137-280-91	FILM CHIP	680PF	5%	16V
C264	1-216-295-00	METAL CHIP	0	5%	1/10W
C265	1-216-295-00	METAL CHIP	0	5%	1/10W
C266	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C267	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C461	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C462	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C463	1-137-291-91	FILM CHIP	0.0056uF	5%	16V
C464	1-137-280-91	FILM CHIP	680PF	5%	16V
C601	1-124-791-11	ELECT	1.0uF	20%	100V
C603	1-124-910-11	ELECT	47uF	20%	50V
C604	1-124-910-11	ELECT	47uF	20%	50V
C605	1-124-910-11	ELECT	47uF	20%	50V
C606	1-124-911-11	ELECT	220uF	20%	50V
C607	1-124-911-11	ELECT	220uF	20%	50V
C608	1-124-557-11	ELECT	1000uF	20%	25V
C609	1-136-165-00	FILM	0.1uF	5%	50V
C610	1-136-165-00	FILM	0.1uF	5%	50V
C611	1-124-791-11	ELECT	1.0uF	20%	100V
C613	1-124-910-11	ELECT	47uF	20%	50V
C614	1-124-910-11	ELECT	47uF	20%	50V
C615	1-124-910-11	ELECT	47uF	20%	50V
C616	1-124-911-11	ELECT	220uF	20%	50V
C617	1-124-911-11	ELECT	220uF	20%	50V
C618	1-124-557-11	ELECT	1000uF	20%	25V
C619	1-136-165-00	FILM	0.1uF	5%	50V
C620	1-136-165-00	FILM	0.1uF	5%	50V
C621	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C623	1-124-910-11	ELECT	47uF	20%	50V
C624	1-124-910-11	ELECT	47uF	20%	50V
C625	1-124-910-11	ELECT	47uF	20%	50V
C626	1-124-911-11	ELECT	220uF	20%	50V
C627	1-124-911-11	ELECT	220uF	20%	50V
C628	1-124-557-11	ELECT	1000uF	20%	25V
C629	1-136-165-00	FILM	0.1uF	5%	50V
C630	1-136-165-00	FILM	0.1uF	5%	50V
C631	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C633	1-124-910-11	ELECT	47uF	20%	50V
C634	1-124-910-11	ELECT	47uF	20%	50V
C635	1-124-910-11	ELECT	47uF	20%	50V
C636	1-124-911-11	ELECT	220uF	20%	50V
C637	1-124-911-11	ELECT	220uF	20%	50V
C638	1-124-557-11	ELECT	1000uF	20%	25V
C639	1-136-165-00	FILM	0.1uF	5%	50V
C640	1-136-165-00	FILM	0.1uF	5%	50V
C641	1-124-791-11	ELECT	1.0uF	20%	100V
C643	1-124-910-11	ELECT	47uF	20%	50V
C644	1-124-910-11	ELECT	47uF	20%	50V
C645	1-124-910-11	ELECT	47uF	20%	50V
C646	1-124-911-11	ELECT	220uF	20%	50V
C647	1-124-911-11	ELECT	220uF	20%	50V
C648	1-104-650-11	ELECT	6800uF	20%	25V
C649	1-136-165-00	FILM	0.1uF	5%	50V
C650	1-136-165-00	FILM	0.1uF	5%	50V
C651	1-137-288-91	FILM CHIP	0.0033uF	5%	16V
C653	1-124-910-11	ELECT	47uF	20%	50V
C654	1-124-910-11	ELECT	47uF	20%	50V
C655	1-124-910-11	ELECT	47uF	20%	50V
C656	1-124-911-11	ELECT	220uF	20%	50V
C657	1-124-911-11	ELECT	220uF	20%	50V
C658	1-124-557-11	ELECT	1000uF	20%	25V
C659	1-136-165-00	FILM	0.1uF	5%	50V
C660	1-136-165-00	FILM	0.1uF	5%	50V
C661	1-124-791-11	ELECT	1.0uF	20%	100V
C663	1-124-910-11	ELECT	47uF	20%	50V
C664	1-124-910-11	ELECT	47uF	20%	50V
C665	1-124-910-11	ELECT	47uF	20%	50V
C666	1-124-911-11	ELECT	220uF	20%	50V
C667	1-124-911-11	ELECT	220uF	20%	50V
C668	1-124-557-11	ELECT	1000uF	20%	25V
C669	1-136-165-00	FILM	0.1uF	5%	50V
C670	1-136-165-00	FILM	0.1uF	5%	50V
C671	1-124-791-11	ELECT	1.0uF	20%	100V
C672	1-124-791-11	ELECT	1.0uF	20%	100V
C673	1-124-791-11	ELECT	1.0uF	20%	100V
C674	1-124-791-11	ELECT	1.0uF	20%	100V
C675	1-124-791-11	ELECT	1.0uF	20%	100V
C676	1-124-791-11	ELECT	1.0uF	20%	100V
C677	1-124-791-11	ELECT	1.0uF	20%	100V
C679	1-164-159-11	CERAMIC	0.1uF		50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
C680	1-164-159-11	CERAMIC 0.1uF 50V	
C681	1-164-159-11	CERAMIC 0.1uF 50V	
C682	1-164-159-11	CERAMIC 0.1uF 50V	
C683	1-164-159-11	CERAMIC 0.1uF 50V	
C684	1-164-159-11	CERAMIC 0.1uF 50V	
C685	1-164-159-11	CERAMIC 0.1uF 50V	
C686	1-164-159-11	CERAMIC 0.1uF 50V	
C687	1-164-159-11	CERAMIC 0.1uF 50V	
C688	1-164-159-11	CERAMIC 0.1uF 50V	
C689	1-164-159-11	CERAMIC 0.1uF 50V	
C702	1-136-173-00	FILM 0.47uF 5% 50V	
C703	1-136-172-00	FILM 0.39uF 5% 50V	
C704	1-124-791-11	ELECT 1.0uF 20% 100V	
C705	1-126-059-11	ELECT 10uF 20% 50V	
C706	1-136-170-00	FILM 0.27uF 5% 50V	
C707	1-136-166-00	FILM 0.12uF 5% 50V	
C708	1-124-122-11	ELECT 100uF 20% 50V	
C709	1-124-122-11	ELECT 100uF 20% 50V	
C710	1-136-171-00	FILM 0.33uF 5% 50V	
C711	1-136-171-00	FILM 0.33uF 5% 50V	
C712	1-136-171-00	FILM 0.33uF 5% 50V	
C713	1-136-171-00	FILM 0.33uF 5% 50V	
C714	1-126-059-11	ELECT 10uF 20% 50V	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN601	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P	
* CN602	1-564-242-00	PIN, CONNECTOR 5P	
* CN603	1-564-243-00	PIN, CONNECTOR 6P	
* CN604	1-564-514-11	PLUG, CONNECTOR 11P	
* CN605	1-564-342-11	PIN, CONNECTOR 8P	
* CN606	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
* CN607	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
CN608	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
CN609	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
* CN610	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
* CN611	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
* CN612	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
* CN613	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
* CN614	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	

< DIODE >

Ref. No.	Part No.	Description	Remark
D671	8-719-404-46	DIODE MA110	
D672	8-719-404-46	DIODE MA110	
D673	8-719-404-46	DIODE MA110	
D674	8-719-404-46	DIODE MA110	
D701	8-719-404-46	DIODE MA110	
D702	8-719-404-46	DIODE MA110	

< IC >

Ref. No.	Part No.	Description	Remark
IC361	8-759-170-72	IC NJM5532MD	
IC362	8-759-170-72	IC NJM5532MD	
IC363	8-759-170-72	IC NJM5532MD	
IC364	8-759-170-72	IC NJM5532MD	
IC461	8-759-170-72	IC NJM5532MD	
IC601	8-759-178-19	IC uPC2505H	
IC611	8-759-178-19	IC uPC2505H	
IC621	8-759-178-19	IC uPC2505H	
IC631	8-759-178-19	IC uPC2505H	
IC641	8-759-178-19	IC uPC2505H	
IC651	8-759-178-19	IC uPC2505H	
IC661	8-759-178-19	IC uPC2505H	
IC701	8-759-635-26	IC M5283P	
IC702	8-759-636-55	IC M5218AFP	
IC703	8-759-636-55	IC M5218AFP	
IC704	8-759-636-55	IC M5218AFP	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remark
Q601	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q611	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q621	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q631	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q641	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q651	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q661	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q671	8-729-805-67	TRANSISTOR 2SA1342	
Q672	8-729-805-43	TRANSISTOR 2SC3396	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R161	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R162	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R163	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R164	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R165	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R168	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R169	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R261	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R262	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R263	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R264	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R265	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R268	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R269	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R461	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R462	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R463	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R464	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R601	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R602	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R603	1-216-011-00	METAL CHIP 27 5% 1/10W	

POWER | RELAY (B)

US model: Last digit – 11, 12

Ref.No.	Part No.	Description					Remark
R604	1-216-011-00	METAL CHIP	27	5%	1/10W		
R605	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R606	1-216-049-00	METAL CHIP	1K	5%	1/10W		
⚠R607	1-249-381-11	CARBON	1	5%	1/4W	F	
⚠R608	1-249-381-11	CARBON	1	5%	1/4W	F	
R609	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R611	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R612	1-216-077-00	METAL CHIP	15K	5%	1/10W		
R613	1-216-011-00	METAL CHIP	27	5%	1/10W		
R614	1-216-011-00	METAL CHIP	27	5%	1/10W		
R615	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R616	1-216-049-00	METAL CHIP	1K	5%	1/10W		
⚠R617	1-249-381-11	CARBON	1	5%	1/4W	F	
⚠R618	1-249-381-11	CARBON	1	5%	1/4W	F	
R619	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R621	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R622	1-216-077-00	METAL CHIP	15K	5%	1/10W		
R623	1-216-015-00	METAL CHIP	39	5%	1/10W		
R624	1-216-015-00	METAL CHIP	39	5%	1/10W		
R625	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R626	1-216-049-00	METAL CHIP	1K	5%	1/10W		
⚠R627	1-249-381-11	CARBON	1	5%	1/4W	F	
⚠R628	1-249-381-11	CARBON	1	5%	1/4W	F	
R629	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R631	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R632	1-216-077-00	METAL CHIP	15K	5%	1/10W		
R633	1-216-015-00	METAL CHIP	39	5%	1/10W		
R634	1-216-015-00	METAL CHIP	39	5%	1/10W		
R635	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R636	1-216-049-00	METAL CHIP	1K	5%	1/10W		
⚠R637	1-249-381-11	CARBON	1	5%	1/4W	F	
⚠R638	1-249-381-11	CARBON	1	5%	1/4W	F	
R639	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R641	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R642	1-216-097-00	METAL CHIP	100K	5%	1/10W		
R643	1-216-009-00	METAL CHIP	22	5%	1/10W		
R644	1-216-009-00	METAL CHIP	22	5%	1/10W		
R645	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		
R646	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		
⚠R647	1-249-381-11	CARBON	1	5%	1/4W	F	
⚠R648	1-249-381-11	CARBON	1	5%	1/4W	F	
R649	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R651	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R652	1-216-077-00	METAL CHIP	15K	5%	1/10W		
R653	1-216-015-00	METAL CHIP	39	5%	1/10W		
R654	1-216-015-00	METAL CHIP	39	5%	1/10W		
R655	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R656	1-216-049-00	METAL CHIP	1K	5%	1/10W		
⚠R657	1-249-381-11	CARBON	1	5%	1/4W	F	
⚠R658	1-249-381-11	CARBON	1	5%	1/4W	F	
R659	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R661	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R662	1-216-077-00	METAL CHIP	15K	5%	1/10W		
R663	1-216-009-00	METAL CHIP	22	5%	1/10W		
R664	1-216-009-00	METAL CHIP	22	5%	1/10W		
R665	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R666	1-216-049-00	METAL CHIP	1K	5%	1/10W		
⚠R667	1-249-381-11	CARBON	1	5%	1/4W	F	
⚠R668	1-249-381-11	CARBON	1	5%	1/4W	F	
R669	1-216-073-00	METAL CHIP	10K	5%	1/10W		
R671	1-216-025-00	METAL CHIP	100	5%	1/10W		
R672	1-216-025-00	METAL CHIP	100	5%	1/10W		
R673	1-216-025-00	METAL CHIP	100	5%	1/10W		
R674	1-216-025-00	METAL CHIP	100	5%	1/10W		
R701	1-216-069-00	METAL CHIP	6.8K	5%	1/10W		
R702	1-216-069-00	METAL CHIP	6.8K	5%	1/10W		
R703	1-216-089-00	METAL CHIP	47K	5%	1/10W		
R704	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R705	1-216-051-00	METAL CHIP	1.2K	5%	1/10W		
R706	1-216-096-00	METAL GLAZE	91K	5%	1/10W		
R707	1-216-077-00	METAL CHIP	15K	5%	1/10W		
R708	1-216-121-00	METAL CHIP	1M	5%	1/10W		
R709	1-216-049-00	METAL CHIP	1K	5%	1/10W		
R710	1-216-074-00	METAL CHIP	11K	5%	1/10W		
R711	1-216-074-00	METAL CHIP	11K	5%	1/10W		
R712	1-216-076-00	METAL CHIP	13K	5%	1/10W		
R713	1-216-077-00	METAL CHIP	15K	5%	1/10W		
R714	1-216-066-00	METAL CHIP	5.1K	5%	1/10W		
R715	1-216-086-00	METAL GLAZE	36K	5%	1/10W		

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* A-4365-983-A RELAY (B) BOARD, COMPLETE

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< CAPACITOR >

C1	1-124-903-11	ELECT	1uF	20%	50V
C2	1-124-903-11	ELECT	1uF	20%	50V
C3	1-124-903-11	ELECT	1uF	20%	50V
C4	1-124-903-11	ELECT	1uF	20%	50V
C5	1-124-903-11	ELECT	1uF	20%	50V
C6	1-124-903-11	ELECT	1uF	20%	50V
C7	1-136-171-00	FILM	0.33uF	5%	50V
C8	1-136-171-00	FILM	0.33uF	5%	50V
C9	1-136-171-00	FILM	0.33uF	5%	50V
C10	1-136-171-00	FILM	0.33uF	5%	50V
C11	1-136-165-00	FILM	0.1uF	5%	50V

< CONNECTOR >

CN1	1-564-506-11	PLUG, CONNECTOR	3P
* CN2	1-564-341-11	PIN, CONNECTOR	7P

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
CN3	1-569-932-11	SOCKET, CONNECTOR 15P	
* CN4	1-564-338-00	PIN, CONNECTOR 4P	
* CN5	1-564-341-11	PIN, CONNECTOR 7P	
CN6	1-569-932-11	SOCKET, CONNECTOR 15P	
* CN7	1-564-338-00	PIN, CONNECTOR 4P	
* CN8	1-564-342-11	PIN, CONNECTOR 8P	
* CN9	1-564-342-11	PIN, CONNECTOR 8P	
* CN551	1-564-512-11	PIN, CONNECTOR 9P	
* CN552	1-564-512-11	PIN, CONNECTOR 9P	
		< DIODE >	
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-911-19	DIODE 1SS119	
D3	8-719-911-19	DIODE 1SS119	
D4	8-719-911-19	DIODE 1SS119	
D5	8-719-911-19	DIODE 1SS119	
D6	8-719-911-19	DIODE 1SS119	
D7	8-719-911-19	DIODE 1SS119	
D8	8-719-911-19	DIODE 1SS119	
D9	8-719-911-19	DIODE 1SS119	
D10	8-719-911-19	DIODE 1SS119	
D11	8-719-911-19	DIODE 1SS119	
D12	8-719-911-19	DIODE 1SS119	
		< TRANSISTOR >	
Q1	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q2	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4	8-729-900-36	TRANSISTOR DTC124ES	
Q5	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6	8-729-900-36	TRANSISTOR DTC124ES	
Q7	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q8	8-729-900-36	TRANSISTOR DTC124ES	
Q9	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q10	8-729-900-36	TRANSISTOR DTC124ES	
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q12	8-729-900-36	TRANSISTOR DTC124ES	
Q13	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q14	8-729-900-36	TRANSISTOR DTC124ES	
Q15	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q16	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q17	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q18	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q19	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q20	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q21	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q22	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q23	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q24	8-729-801-84	TRANSISTOR 2SB1013-4	
Q25	8-729-119-78	TRANSISTOR 2SC2785-HFE	

Ref. No.	Part No.	Description	Remark
Q29	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q30	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q31	8-729-900-36	TRANSISTOR DTC124ES	
		< RESISTOR >	
R1	1-249-417-11	CARBON 1K 5% 1/4W	F
R2	1-249-429-11	CARBON 10K 5% 1/4W	F
R3	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R4	1-247-891-00	CARBON 330K 5% 1/4W	
R5	1-249-429-11	CARBON 10K 5% 1/4W	F
R6	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R8	1-247-867-11	CARBON 33K 5% 1/4W	
R9	1-247-867-11	CARBON 33K 5% 1/4W	
R10	1-249-431-11	CARBON 15K 5% 1/4W	F
R11	1-247-879-11	CARBON 100K 5% 1/4W	
R12	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R14	1-247-867-11	CARBON 33K 5% 1/4W	
R15	1-247-867-11	CARBON 33K 5% 1/4W	
R16	1-249-431-11	CARBON 15K 5% 1/4W	F
R17	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R19	1-247-867-11	CARBON 33K 5% 1/4W	
R20	1-247-867-11	CARBON 33K 5% 1/4W	
R21	1-249-431-11	CARBON 15K 5% 1/4W	F
R22	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R24	1-247-867-11	CARBON 33K 5% 1/4W	
R25	1-247-867-11	CARBON 33K 5% 1/4W	
R26	1-249-431-11	CARBON 15K 5% 1/4W	F
R28	1-249-417-11	CARBON 1K 5% 1/4W	F
R29	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R31	1-247-867-11	CARBON 33K 5% 1/4W	
R32	1-247-867-11	CARBON 33K 5% 1/4W	
R33	1-249-431-11	CARBON 15K 5% 1/4W	F
R34	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R36	1-247-867-11	CARBON 33K 5% 1/4W	
R37	1-247-867-11	CARBON 33K 5% 1/4W	
R38	1-249-431-11	CARBON 15K 5% 1/4W	F
R39	1-247-891-00	CARBON 330K 5% 1/4W	
R40	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R41	1-247-891-00	CARBON 330K 5% 1/4W	
R42	1-247-891-00	CARBON 330K 5% 1/4W	
R43	1-247-883-00	CARBON 150K 5% 1/4W	
R44	1-247-891-00	CARBON 330K 5% 1/4W	
R45	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R46	1-247-891-00	CARBON 330K 5% 1/4W	
R47	1-247-891-00	CARBON 330K 5% 1/4W	
R48	1-247-883-00	CARBON 150K 5% 1/4W	
R49	1-247-891-00	CARBON 330K 5% 1/4W	
R50	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R51	1-247-891-00	CARBON 330K 5% 1/4W	
R52	1-247-891-00	CARBON 330K 5% 1/4W	

RELAY (B) SYSTEM

US model: Last digit – 11, 12

Ref. No.	Part No.	Description	Remark
R53	1-247-883-00	CARBON 150K 5% 1/4W	
R54	1-247-891-00	CARBON 330K 5% 1/4W	
R55	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R56	1-247-891-00	CARBON 330K 5% 1/4W	
R57	1-247-891-00	CARBON 330K 5% 1/4W	
R58	1-247-883-00	CARBON 150K 5% 1/4W	
R59	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R60	1-249-429-11	CARBON 10K 5% 1/4W	F
R61	1-247-891-00	CARBON 330K 5% 1/4W	
R62	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R67	1-247-891-00	CARBON 330K 5% 1/4W	
R68	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R69	1-249-417-11	CARBON 1K 5% 1/4W	F
R70	1-249-429-11	CARBON 10K 5% 1/4W	F
R71	1-249-429-11	CARBON 10K 5% 1/4W	F
R72	1-249-437-11	CARBON 47K 5% 1/4W	F

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Ref. No.	Part No.	Description	Remark
*	A-4365-975-A	SYSTEM BOARD, COMPLETE **********************	
*	4-945-292-01	HOLDER, INDICATION TUBE	
	4-959-600-01	CUSHION (FL TUBE)	
	4-960-249-01	MASK (A)	

< CAPACITOR >

Ref. No.	Part No.	Description	Remark
C801	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C802	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C803	1-125-486-11	DOUBLE LAYERS 0.22F 5.5V	
C804	1-124-443-00	ELECT 100uF 20% 10V	
C805	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C806	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C807	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C808	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C809	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C810	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C812	1-124-443-00	ELECT 100uF 20% 10V	
C813	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C814	1-124-443-00	ELECT 100uF 20% 10V	
C815	1-124-443-00	ELECT 100uF 20% 10V	
C816	1-124-443-00	ELECT 100uF 20% 10V	
C817	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C819	1-124-443-00	ELECT 100uF 20% 10V	
C820	1-124-903-11	ELECT 1uF 20% 50V	
C821	1-162-291-31	CERAMIC 560PF 10% 50V	
C823	1-162-291-31	CERAMIC 560PF 10% 50V	
C824	1-124-443-00	ELECT 100uF 20% 10V	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN801	1-564-342-11	PIN, CONNECTOR 8P	
* CN802	1-564-341-11	PIN, CONNECTOR 7P	
CN804	1-569-932-11	SOCKET, CONNECTOR 15P	
* CN805	1-564-338-00	PIN, CONNECTOR 4P	
* CN806	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P	

< DIODE >

Ref. No.	Part No.	Description	Remark
D801	8-719-404-46	DIODE MA110	
D802	8-719-404-46	DIODE MA110	
D803	8-719-404-46	DIODE MA110	
D804	8-719-043-06	DIODE HLMK-D200	
D805	8-719-042-98	DIODE HLMP-4000	
D807	8-719-043-00	DIODE HLMK-D500	
D808	8-719-043-00	DIODE HLMK-D500	
D809	8-719-043-08	DIODE HLMK-D300	
D810	8-719-043-08	DIODE HLMK-D300	
D811	8-719-043-08	DIODE HLMK-D300	
D814	8-719-043-08	DIODE HLMK-D300	
D815	8-719-404-46	DIODE MA110	
D816	8-719-911-06	DIODE 1SS106	

< FLUORESCENT TUBE >

Ref. No.	Part No.	Description	Remark
FL801	1-517-180-11	INDICATOR TUBE, FLUORESCENT	

< IC >

Ref. No.	Part No.	Description	Remark
IC801	8-759-182-21	IC M38022M4-076FP	
IC802	8-759-077-16	IC M66004M4FP	
IC804	8-759-178-21	IC M62354FP	
IC805	8-759-636-56	IC M66311FP	
IC806	8-759-519-37	IC S-80750AL-EE	
IC807	8-749-923-43	IC GP1U57XB	

< COIL >

Ref. No.	Part No.	Description	Remark
L801	1-410-216-31	INDUCTOR 100uH	
L802	1-410-216-31	INDUCTOR 100uH	
L803	1-410-216-31	INDUCTOR 100uH	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remark
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R801	1-216-017-00	METAL CHIP 47 5% 1/10W	
R802	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R803	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R804	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R805	1-216-025-00	METAL CHIP 100 5% 1/10W	
R806	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R807	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R808	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R809	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R810	1-216-039-00	METAL CHIP 390 5% 1/10W	

Ref.No.	Part No.	Description				Remark
R811	1-216-039-00	METAL CHIP	390	5%	1/10W	
R812	1-216-039-00	METAL CHIP	390	5%	1/10W	
R813	1-216-039-00	METAL CHIP	390	5%	1/10W	
R815	1-216-039-00	METAL CHIP	390	5%	1/10W	
R816	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W	
R817	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W	
R818	1-216-642-11	METAL CHIP	430	0.5%	1/10W	
R819	1-216-644-11	METAL CHIP	510	0.5%	1/10W	
R820	1-216-646-11	METAL CHIP	620	0.5%	1/10W	
R821	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R823	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R825	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R828	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R830	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W	
R831	1-216-642-11	METAL CHIP	430	0.5%	1/10W	
R832	1-216-644-11	METAL CHIP	510	0.5%	1/10W	
R833	1-216-646-11	METAL CHIP	620	0.5%	1/10W	
R834	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R835	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	
R836	1-216-654-11	METAL CHIP	1.3K	0.5%	1/10W	
R839	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W	
R840	1-216-642-11	METAL CHIP	430	0.5%	1/10W	
R841	1-216-644-11	METAL CHIP	510	0.5%	1/10W	
R842	1-216-646-11	METAL CHIP	620	0.5%	1/10W	
R843	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R844	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	
R845	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R846	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R847	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R848	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R849	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R850	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R851	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R852	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R853	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R854	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R856	1-249-442-11	CARBON	510	5%	1/4W	F
R857	1-249-429-11	CARBON	10K	5%	1/4W	F
		< SWITCH >				
S801	1-692-607-11	SWITCH, TACTIL (POWER)				
S802	1-692-607-11	SWITCH, TACTIL (INPUT 1, 2)				
S804	1-692-607-11	SWITCH, TACTIL (DOLBY PROLOGIC)				
S805	1-692-607-11	SWITCH, TACTIL (SURROUND)				
S806	1-692-607-11	SWITCH, TACTIL (SUPER WOOFER)				
S808	1-692-607-11	SWITCH, TACTIL (MUTING)				
S809	1-692-608-11	SWITCH, TACTIL (STANDARD LEVEL)				
S810	1-692-608-11	SWITCH, TACTIL (CENTER LEVEL +)				
S811	1-692-608-11	SWITCH, TACTIL (CENTER LEVEL -)				
S812	1-692-608-11	SWITCH, TACTIL (REAR LEVEL +)				
S813	1-692-608-11	SWITCH, TACTIL (REAR LEVEL -)				
S814	1-692-608-11	SWITCH, TACTIL (SUPER WF LEVEL +)				
S815	1-692-608-11	SWITCH, TACTIL (SUPER WF LEVEL -)				
S816	1-692-608-11	SWITCH, TACTIL (BASS BOOST)				
S817	1-692-608-11	SWITCH, TACTIL (PRO-LOGIC MODE)				
S818	1-692-608-11	SWITCH, TACTIL (SURROUND MODE)				
S819	1-692-608-11	SWITCH, TACTIL (TEST TONE)				
S820	1-692-608-11	SWITCH, TACTIL (DELAY)				
S821	1-692-608-11	SWITCH, TACTIL (DISPLAY)				
		< VIBRATOR >				
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)				

****

* A-4365-987-A TONE BOARD, COMPLETE

****

Ref.No.	Part No.	Description				Remark
		< CAPACITOR >				
C151	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C152	1-163-107-00	CERAMIC CHIP	39PF	5%	50V	
C153	1-123-369-00	ELECT	4.7uF	20%	50V	
C154	1-130-479-00	MYLAR	0.047uF	5%	50V	
C155	1-130-479-00	MYLAR	0.047uF	5%	50V	
C156	1-130-477-00	MYLAR	0.0033uF	5%	50V	
C157	1-130-477-00	MYLAR	0.0033uF	5%	50V	
C158	1-124-910-11	ELECT	47uF	20%	50V	
C251	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C252	1-163-107-00	CERAMIC CHIP	39PF	5%	50V	
C253	1-123-369-00	ELECT	4.7uF	20%	50V	
C254	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C255	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C256	1-130-477-00	MYLAR	0.0033uF	5%	50V	
C257	1-130-477-00	MYLAR	0.0033uF	5%	50V	
C258	1-124-910-11	ELECT	47uF	20%	50V	
C351	1-124-122-11	ELECT	100uF	20%	50V	
C352	1-124-122-11	ELECT	100uF	20%	50V	
C465	1-136-159-00	FILM	0.033uF	5%	50V	
		< CONNECTOR >				
* CN303	1-564-514-11	PLUG, CONNECTOR 11P				
* CN304	1-564-514-11	PLUG, CONNECTOR 11P				
		< IC >				
IC351	8-759-636-55	IC M5218AFP				
		< RESISTOR >				
R151	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R152	1-216-119-00	METAL CHIP	820K	5%	1/10W	
R154	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R155	1-216-083-00	METAL CHIP	27K	5%	1/10W	

TONE VOL

US model : Last digit – 11, 12

Ref. No.	Part No.	Description	Remark
R156	1-216-043-00	METAL CHIP 560 5% 1/10W	
R157	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R158	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R251	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R252	1-216-119-00	METAL CHIP 820K 5% 1/10W	
R254	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R255	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R256	1-216-043-00	METAL CHIP 560 5% 1/10W	
R257	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R258	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R259	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R260	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R465	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
		< VARIABLE RESISTOR >	
RV351	1-223-453-11	RES, VAR, CARBON 100K/100K (FRONT BASS)	
RV352	1-223-453-11	RES, VAR, CARBON 100K/100K (FRONT TREBLE)	
RV353	1-223-412-11	RES, VAR, CARBON 250K/250K (BALANCE)	
RV354	1-223-411-11	RES, VAR, CARBON 20K/20K (CENTER TONE)	
***			
*	1-648-812-11	VOL BOARD *********	
		< CONNECTOR >	
* CN525	1-564-514-11	PLUG, CONNECTOR 11P	
* CN526	1-564-514-11	PLUG, CONNECTOR 11P	
* CN527	1-564-505-11	PLUG, CONNECTOR 2P	
* CN528	1-564-338-00	PIN, CONNECTOR 4P	
		< IC >	
IC525	8-759-820-62	IC LB1639	
		< VARIABLE RESISTOR >	
VR525	1-223-413-11	RES, VAR (MASTER VOLUME)	
***			

US, CND, AEP, UK model: Last digit – 13 or later

Ref.No.	Part No.	Description	Remark
*	A-4365-098-A	DOLBY BOARD, COMPLETE (US) **************************	
*	A-4365-739-A	DOLBY BOARD, COMPLETE (CND) ***************************	
*	A-4365-738-A	DOLBY BOARD, COMPLETE (AEP, UK) *******************************	
		< CAPACITOR >	
C321	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C323	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C325	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C327	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C328	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C333	1-126-059-11	ELECT 10uF 20% 50V	
C334	1-126-059-11	ELECT 10uF 20% 50V	
C335	1-126-059-11	ELECT 10uF 20% 50V	
C336	1-126-059-11	ELECT 10uF 20% 50V	
C401	1-123-369-00	ELECT 4.7uF 20% 50V	
C402	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C403	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C501	1-123-369-00	ELECT 4.7uF 20% 50V	
C502	1-136-169-00	FILM 0.22uF 5% 50V	
C503	1-136-169-00	FILM 0.22uF 5% 50V	
C504	1-126-059-11	ELECT 10uF 20% 50V	
C505	1-136-153-00	FILM 0.01uF 5% 50V	
C506	1-136-153-00	FILM 0.01uF 5% 50V	
C507	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C508	1-136-153-00	FILM 0.01uF 5% 50V	
C509	1-126-101-11	ELECT 100uF 20% 16V	
C510	1-136-165-00	FILM 0.1uF 5% 50V	
C511	1-136-165-00	FILM 0.1uF 5% 50V	
C512	1-136-157-00	FILM 0.022uF 5% 50V	
C513	1-136-157-00	FILM 0.022uF 5% 50V	
C514	1-137-298-11	FILM CHIP 0.022uF 5% 16V	
C515	1-137-280-11	FILM CHIP 680PF 5% 16V	
C516	1-137-298-11	FILM CHIP 0.022uF 5% 16V	
C517	1-137-280-11	FILM CHIP 680PF 5% 16V	
C518	1-136-171-00	FILM 0.33uF 5% 50V	
C519	1-136-171-00	FILM 0.33uF 5% 50V	
C520	1-136-171-00	FILM 0.33uF 5% 50V	
C521	1-136-171-00	FILM 0.33uF 5% 50V	
C522	1-136-169-00	FILM 0.22uF 5% 50V	
C523	1-136-169-00	FILM 0.22uF 5% 50V	
C524	1-123-369-00	ELECT 4.7uF 20% 50V	
C525	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C526	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C527	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C528	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C529	1-126-101-11	ELECT 100uF 20% 16V	
C530	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C531	1-126-101-11	ELECT 100uF 20% 16V	
C532	1-123-369-00	ELECT 4.7uF 20% 50V	
C533	1-137-294-11	FILM CHIP 0.01uF 5% 16V	
C534	1-123-369-00	ELECT 4.7uF 20% 50V	
C535	1-104-536-11	FILM CHIP 560PF 5% 50V	
C536	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C537	1-104-548-91	FILM CHIP 0.0056uF 5% 16V	
C538	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C539	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C540	1-124-910-11	ELECT 47uF 20% 50V	
C541	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C542	1-104-539-11	FILM CHIP 0.001uF 5% 50V	
C543	1-104-544-11	FILM CHIP 0.0027uF 5% 50V	
C544	1-123-369-00	ELECT 4.7uF 20% 50V	
C545	1-124-122-11	ELECT 100uF 20% 50V	
C546	1-136-171-00	FILM 0.33uF 5% 50V	
C547	1-136-165-00	FILM 0.1uF 5% 50V	
C548	1-124-791-11	ELECT 1.0uF 20% 100V	
C549	1-104-547-11	FILM CHIP 0.0047uF 5% 16V	
C550	1-104-557-11	FILM CHIP 0.033uF 5% 16V	
C551	1-104-556-11	FILM CHIP 0.027uF 5% 16V	
C552	1-126-233-11	ELECT 22uF 20% 50V	
C553	1-124-122-11	ELECT 100uF 20% 50V	
C554	1-124-791-11	ELECT 1.0uF 20% 100V	
C555	1-124-791-11	ELECT 1.0uF 20% 100V	
C556	1-163-038-91	CERAMIC CHIP 0.1uF 25V	
C557	1-104-550-11	FILM CHIP 0.0082uF 5% 16V	
C558	1-163-135-00	CERAMIC CHIP 560PF 5% 50V	
C815	1-126-101-11	ELECT 100uF 20% 16V	
C816	1-126-101-11	ELECT 100uF 20% 16V	
C914	1-126-103-11	ELECT 470uF 20% 16V	
C915	1-126-103-11	ELECT 470uF 20% 16V	
C916	1-126-101-11	ELECT 100uF 20% 16V	
C917	1-126-101-11	ELECT 100uF 20% 16V	
		< CONNECTOR >	
CN501	1-564-505-11	PLUG, CONNECTOR 2P	
* CN502	1-564-512-11	PLUG, CONNECTOR 9P	
CN503	1-564-510-11	PLUG, CONNECTOR 7P	
CN504	1-569-932-11	SOCKET, CONNECTOR 15P	
* CN505	1-564-507-11	PLUG, CONNECTOR 4P	
* CN506	1-564-507-11	PLUG, CONNECTOR 4P	
		< IC >	
IC322	8-759-801-01	IC LC4966	
IC323	8-759-801-01	IC LC4966	
IC324	8-759-801-01	IC LC4966	
IC325	8-759-801-01	IC LC4966	
IC326	8-759-636-55	IC M5218AFP	

DOLBY

US, CND, AEP, UK model : Last digit – 13 or later

Ref.No.	Part No.	Description	Remark
IC327	8-759-636-55	IC M5218AFP	
IC328	8-759-636-55	IC M5218AFP	
IC329	8-759-636-55	IC M5218AFP	
IC330	8-759-635-26	IC M5283P	
IC501	8-759-633-83	IC M50198P	
IC502	8-759-823-24	IC LA2730	
IC503	8-759-170-77	IC SSM-2126A	
IC921	8-759-231-58	IC TA7812S	
IC922	8-759-245-86	IC TA7912S	
IC923	8-759-604-84	IC M5F7806	
IC924	8-759-604-85	IC M5F7906	
		< JUMPER RESISTOR >	
JW01	1-216-295-00	METAL CHIP 0 5% 1/10W	
JW03	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< COIL >	
L501	1-410-216-31	INDUCTOR CHIP 100uH	
		< TRANSISTOR >	
Q321	8-729-805-43	TRANSISTOR 2SC3396	
Q322	8-729-805-67	TRANSISTOR 2SA1342	
Q323	8-729-805-43	TRANSISTOR 2SC3396	
Q324	8-729-805-43	TRANSISTOR 2SC3396	
Q325	8-729-805-67	TRANSISTOR 2SA1342	
Q326	8-729-805-43	TRANSISTOR 2SC3396	
Q327	8-729-805-43	TRANSISTOR 2SC3396	
Q328	8-729-805-67	TRANSISTOR 2SA1342	
Q329	8-729-805-43	TRANSISTOR 2SC3396	
Q330	8-729-805-43	TRANSISTOR 2SC3396	
Q331	8-729-805-67	TRANSISTOR 2SA1342	
Q332	8-729-805-43	TRANSISTOR 2SC3396	
		< RESISTOR >	
R321	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R322	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R324	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R325	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R327	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R330	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R331	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R332	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R333	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R334	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R335	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R336	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R337	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R338	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R339	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	

Ref.No.	Part No.	Description	Remark
R340	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R341	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R343	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R344	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R345	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R346	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R347	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R349	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R350	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R351	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R352	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R360	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R401	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R402	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R403	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R501	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R502	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R503	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R504	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R505	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R506	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R507	1-208-291-91	METAL GLAZE 4.7M 5% 1/10W	
R508	1-208-291-91	METAL GLAZE 4.7M 5% 1/10W	
R509	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R510	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R511	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R512	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R513	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R514	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R515	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R516	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R517	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R518	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R519	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R520	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R521	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R522	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R523	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R524	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R525	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R526	1-216-063-00	METAL CHIP 3.9K 5% 1/10W	
R527	1-216-107-00	METAL CHIP 270K 5% 1/10W	
R528	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R529	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R531	1-216-031-00	METAL CHIP 180 5% 1/10W	
R532	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R533	1-216-107-00	METAL CHIP 270K 5% 1/10W	
R534	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R535	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R536	1-216-083-00	METAL CHIP 27K 5% 1/10W	

DOLBY **FUSE** **INPUT**

US, CND, AEP, UK model: Last digit – 13 or later

Ref. No.	Part No.	Description	Remark
R537	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R538	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R539	1-216-079-00	METAL CHIP 18K 5% 1/10W	
		< VIBRATOR >	
X501	1-567-818-21	VIBRATOR, CERAMIC (3.58MHz)	

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*	A-4365-129-A	FUSE BOARD, COMPLETE ********************	
		< CAPACITOR >	
C950	1-124-473-11	ELECT 1000uF 20% 10V	
C951	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C953	1-163-135-00	CERAMIC CHIP 560PF 5% 50V	
C955	1-124-910-11	ELECT 47uF 20% 50V	
C956	1-124-472-11	ELECT 470uF 20% 10V	
		< CONNECTOR >	
* CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
* CN902	1-564-321-00	PIN, CONNECTOR 2P	
* CN950	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P	
* CN951	1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D950	8-719-404-46	DIODE MA110	
D951	8-719-033-28	DIODE EC11FS4	
D953	8-719-158-82	DIODE RD36S-B	
		< IC >	
IC950	8-759-158-62	IC TA78057S	
		< TRANSISTOR >	
Q950	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q951	8-729-801-84	TRANSISTOR 2SB1013-4	
Q952	8-729-202-37	TRANSISTOR 2SC3303-Y	
Q953	8-729-119-78	TRANSISTOR 2SC403SP-51	
		< RESISTOR >	
R950	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R951	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R952	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R953	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R954	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R955	1-216-025-00	METAL CHIP 100 5% 1/10W	
R956	1-216-015-00	METAL CHIP 39 5% 1/10W	
R957	1-216-025-00	METAL CHIP 100 5% 1/10W	
R958	1-216-077-00	METAL CHIP 15K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
		< TRANSFORMER >	
⚠T950	1-423-725-11	TRANSFORMER, DC-DC CONVERTER	

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*	A-4365-088-A	INPUT BOARD, COMPLETE ********************	
		< CAPACITOR >	
C101	1-123-369-00	ELECT 4.7uF 20% 50V	
C201	1-123-369-00	ELECT 4.7uF 20% 50V	
C301	1-124-122-11	ELECT 100uF 20% 50V	
C302	1-124-122-11	ELECT 100uF 20% 50V	
C303	1-163-127-00	CERAMIC CHIP 270PF 5% 50V	
C304	1-163-063-00	CERAMIC CHIP 0.022uF 10% 50V	
C305	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C306	1-124-903-11	ELECT 1uF 20% 50V	
C308	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C369	1-124-443-00	ELECT 100uF 20% 10V	
		< CONNECTOR >	
* CN301	1-564-512-11	PLUG, CONNECTOR 9P	
* CN302	1-564-341-11	PIN, CONNECTOR 7P	
		< DIODE >	
D301	8-719-404-46	DIODE MA110	
D302	8-719-404-46	DIODE MA110	
D303	8-719-404-46	DIODE MA110	
		< IC >	
IC301	8-759-801-01	IC LC4966	
IC302	8-759-636-55	IC M5218AFP	
IC303	8-759-701-51	IC NJM2072M	
IC304	8-759-636-55	IC M5218AFP	
		< JACK >	
J301	1-573-070-11	JACK, PIN 4P (INPUT 1 IN/OUT)	
J302	1-573-070-11	JACK, PIN 4P (INPUT 2 IN/OUT)	
J303	1-750-709-11	JACK, PIN 1P (CENTER OUT)	
		< JUMPER RESISTOR >	
JP302	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< TRANSISTOR >	
Q301	8-729-805-67	TRANSISTOR 2SA1342	
Q302	8-729-805-43	TRANSISTOR 2SC3396	
Q303	8-729-805-67	TRANSISTOR 2SA1342	
Q304	8-729-805-43	TRANSISTOR 2SC3396	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

INPUT OUTLET P.S

US, CND, AEP, UK model: Last digit – 13 or later

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R101	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R102	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R103	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R104	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R105	1-216-090-00	METAL CHIP 51K 5% 1/10W	
R201	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R202	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R203	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R204	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R205	1-216-090-00	METAL CHIP 51K 5% 1/10W	
R301	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R302	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R303	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R304	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R305	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R306	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R309	1-216-079-00	METAL CHIP 18K 5% 1/10W	
R310	1-216-079-00	METAL CHIP 18K 5% 1/10W	

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Ref. No.	Part No.	Description	Remark
*	1-648-813-11	OUTLET BOARD (US,CND)	

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< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN953	1-564-321-00	PIN, CONNECTOR 2P (US,CND)	
* CN954	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P (US,CND)	

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Ref. No.	Part No.	Description	Remark
*	A-4365-094-A	P.S BOARD, COMPLETE (US,CND)	

****

Ref. No.	Part No.	Description	Remark
*	A-4365-559-A	P.S BOARD, COMPLETE (AEP,UK)	

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Ref. No.	Part No.	Description	Remark
*	3-309-144-21	HEAT SINK	
*	4-363-146-21	HEAT SINK, V.OUT	

< CAPACITOR >

Ref. No.	Part No.	Description	Remark
C901	1-136-165-00	FILM 0.1uF 5% 50V	
C902	1-136-165-00	FILM 0.1uF 5% 50V	
C903	1-136-165-00	FILM 0.1uF 5% 50V	
C904	1-136-165-00	FILM 0.1uF 5% 50V	
C905	1-136-165-00	FILM 0.1uF 5% 50V	
C906	1-136-165-00	FILM 0.1uF 5% 50V	
C907	1-136-165-00	FILM 0.1uF 5% 50V	
C908	1-136-165-00	FILM 0.1uF 5% 50V	
C909	1-124-556-11	ELECT 2200uF 20% 16V	
C910	1-104-933-11	ELECT 8200uF 20% 25V	
C911	1-125-745-11	ELECT 8200uF 20% 25V	
C912	1-124-563-11	ELECT 2200uF 20% 25V	
C913	1-124-563-11	ELECT 2200uF 20% 25V	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN903	1-564-905-11	PIN, CONNECTOR 9P	
* CN904	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P	
* CN905	1-564-242-00	PIN, CONNECTOR 5P	
* CN906	1-564-243-00	PIN, CONNECTOR 6P	
* CN907	1-564-507-11	PLUG, CONNECTOR 4P	
* CN908	1-564-507-11	PLUG, CONNECTOR 4P	

< DIODE >

Ref. No.	Part No.	Description	Remark
D901	8-719-210-33	DIODE EC10DS2	
D902	8-719-210-33	DIODE EC10DS2	
D903	8-719-210-33	DIODE EC10DS2	
D904	8-719-210-33	DIODE EC10DS2	
D905	8-719-210-30	DIODE F10P20F(R)	
D906	8-719-210-38	DIODE F10P20FR	
D907	8-719-210-30	DIODE F10P20F(R)	
D908	8-719-210-38	DIODE F10P20FR	
D909	8-719-210-33	DIODE EC10DS2	
D910	8-719-210-33	DIODE EC10DS2	
D911	8-719-210-33	DIODE EC10DS2	
D912	8-719-210-33	DIODE EC10DS2	

< FUSE/IC LINK >

Ref. No.	Part No.	Description	Remark
⚠F908	1-532-781-21	FUSE, MICRO (SECONDARY)(3.15A 125V) (US,CND)	
⚠F908	1-532-844-21	LINK, IC (PRF3150 3.15A 90V)(AEP,UK)	
⚠F909	1-532-781-21	FUSE, MICRO (SECONDARY)(3.15A 125V) (US,CND)	
⚠F909	1-532-844-21	LINK, IC (PRF3150 3.15A 90V)(AEP,UK)	
⚠F910	1-532-781-21	FUSE, MICRO (SECONDARY)(3.15A 125V) (US,CND)	
⚠F910	1-532-844-21	LINK, IC (PRF3150 3.15A 90V)(AEP,UK)	
⚠F920	1-532-986-31	LINK, IC (PRF10000 10A 90V)(AEP,UK)	
⚠F920	1-576-260-51	FUSE, MICRO (SECONDARY)(10A 125V) (US,CND)	
⚠F921	1-532-986-31	LINK, IC (PRF10000 10A 90V)(AEP,UK)	
⚠F921	1-576-260-51	FUSE, MICRO (SECONDARY)(10A 125V) (US,CND)	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R901	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R902	1-216-089-91	METAL GLAZE 47K 5% 1/10W	

< TRANSFORMER >

Ref. No.	Part No.	Description	Remark
⚠T901	1-423-687-12	TRANSFORMER, POWER (US,CND)	
⚠T901	1-423-884-11	TRANSFORMER, POWER (AEP)	
⚠T901	1-423-885-11	TRANSFORMER, POWER (UK)	

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
*	A-4365-086-A	POWER BOARD, COMPLETE *********************				
*	4-363-146-21	HEAT SINK, V. OUT				
*	4-942-204-01	PLATE, GROUND				
		< CAPACITOR >				
C161	1-137-291-11	FILM CHIP	0.0056uF	5%	16V	
C162	1-137-280-11	FILM CHIP	680PF	5%	16V	
C166	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C167	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C261	1-137-291-11	FILM CHIP	0.0056uF	5%	16V	
C262	1-137-280-11	FILM CHIP	680PF	5%	16V	
C266	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C267	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C461	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C462	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C463	1-137-291-11	FILM CHIP	0.0056uF	5%	16V	
C464	1-137-280-11	FILM CHIP	680PF	5%	16V	
C601	1-124-791-11	ELECT	1.0uF	20%	100V	
C603	1-124-910-11	ELECT	47uF	20%	50V	
C604	1-124-910-11	ELECT	47uF	20%	50V	
C605	1-124-910-11	ELECT	47uF	20%	50V	
C606	1-124-911-11	ELECT	220uF	20%	50V	
C607	1-124-911-11	ELECT	220uF	20%	50V	
C608	1-124-557-11	ELECT	1000uF	20%	25V	
C609	1-136-165-00	FILM	0.1uF	5%	50V	
C610	1-136-165-00	FILM	0.1uF	5%	50V	
C611	1-124-791-11	ELECT	1.0uF	20%	100V	
C613	1-124-910-11	ELECT	47uF	20%	50V	
C614	1-124-910-11	ELECT	47uF	20%	50V	
C615	1-124-910-11	ELECT	47uF	20%	50V	
C616	1-124-911-11	ELECT	220uF	20%	50V	
C617	1-124-911-11	ELECT	220uF	20%	50V	
C618	1-124-557-11	ELECT	1000uF	20%	25V	
C619	1-136-165-00	FILM	0.1uF	5%	50V	
C620	1-136-165-00	FILM	0.1uF	5%	50V	
C621	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C623	1-124-910-11	ELECT	47uF	20%	50V	
C624	1-124-910-11	ELECT	47uF	20%	50V	
C625	1-124-910-11	ELECT	47uF	20%	50V	
C626	1-124-911-11	ELECT	220uF	20%	50V	
C627	1-124-911-11	ELECT	220uF	20%	50V	
C628	1-124-557-11	ELECT	1000uF	20%	25V	
C629	1-136-165-00	FILM	0.1uF	5%	50V	
C630	1-136-165-00	FILM	0.1uF	5%	50V	
C631	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C633	1-124-910-11	ELECT	47uF	20%	50V	
C634	1-124-910-11	ELECT	47uF	20%	50V	
C635	1-124-910-11	ELECT	47uF	20%	50V	
C636	1-124-911-11	ELECT	220uF	20%	50V	

Ref. No.	Part No.	Description				Remark
C637	1-124-911-11	ELECT	220uF	20%	50V	
C638	1-124-557-11	ELECT	1000uF	20%	25V	
C639	1-136-165-00	FILM	0.1uF	5%	50V	
C640	1-136-165-00	FILM	0.1uF	5%	50V	
C641	1-124-791-11	ELECT	1.0uF	20%	100V	
C643	1-124-910-11	ELECT	47uF	20%	50V	
C644	1-124-910-11	ELECT	47uF	20%	50V	
C645	1-124-910-11	ELECT	47uF	20%	50V	
C646	1-124-911-11	ELECT	220uF	20%	50V	
C647	1-124-911-11	ELECT	220uF	20%	50V	
C648	1-104-650-11	ELECT	6800uF	20%	25V	
C649	1-136-165-00	FILM	0.1uF	5%	50V	
C650	1-136-165-00	FILM	0.1uF	5%	50V	
C651	1-137-288-91	FILM CHIP	0.0033uF	5%	16V	
C653	1-124-910-11	ELECT	47uF	20%	50V	
C654	1-124-910-11	ELECT	47uF	20%	50V	
C655	1-124-910-11	ELECT	47uF	20%	50V	
C656	1-124-911-11	ELECT	220uF	20%	50V	
C657	1-124-911-11	ELECT	220uF	20%	50V	
C658	1-124-557-11	ELECT	1000uF	20%	25V	
C659	1-136-165-00	FILM	0.1uF	5%	50V	
C660	1-136-165-00	FILM	0.1uF	5%	50V	
C661	1-124-791-11	ELECT	1.0uF	20%	100V	
C663	1-124-910-11	ELECT	47uF	20%	50V	
C664	1-124-910-11	ELECT	47uF	20%	50V	
C665	1-124-910-11	ELECT	47uF	20%	50V	
C666	1-124-911-11	ELECT	220uF	20%	50V	
C667	1-124-911-11	ELECT	220uF	20%	50V	
C668	1-124-557-11	ELECT	1000uF	20%	25V	
C669	1-136-165-00	FILM	0.1uF	5%	50V	
C670	1-136-165-00	FILM	0.1uF	5%	50V	
C671	1-124-791-11	ELECT	1.0uF	20%	100V	
C672	1-124-791-11	ELECT	1.0uF	20%	100V	
C673	1-124-791-11	ELECT	1.0uF	20%	100V	
C674	1-124-791-11	ELECT	1.0uF	20%	100V	
C675	1-124-791-11	ELECT	1.0uF	20%	100V	
C676	1-124-791-11	ELECT	1.0uF	20%	100V	
C677	1-124-791-11	ELECT	1.0uF	20%	100V	
C679	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C680	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C681	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C682	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C683	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C684	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C685	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C686	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C687	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C688	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C689	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C691	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	

POWER

US, CND, AEP, UK model: Last digit – 13 or later

Ref. No.	Part No.	Description	Remark
C692	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C693	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C694	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C695	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C696	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C697	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C702	1-136-173-00	FILM 0.47uF 5% 50V	
C703	1-136-172-00	FILM 0.39uF 5% 50V	
C704	1-124-791-11	ELECT 1.0uF 20% 100V	
C705	1-126-059-11	ELECT 10uF 20% 50V	
C706	1-136-170-00	FILM 0.27uF 5% 50V	
C707	1-136-166-00	FILM 0.12uF 5% 50V	
C708	1-124-122-11	ELECT 100uF 20% 50V	
C709	1-124-122-11	ELECT 100uF 20% 50V	
C710	1-136-171-00	FILM 0.33uF 5% 50V	
C711	1-136-171-00	FILM 0.33uF 5% 50V	
C712	1-136-171-00	FILM 0.33uF 5% 50V	
C713	1-136-171-00	FILM 0.33uF 5% 50V	
C714	1-126-059-11	ELECT 10uF 20% 50V	
C814	1-124-443-00	ELECT 100uF 20% 10V	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN601	1-564-242-00	PIN, CONNECTOR 5P	
* CN602	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P	
* CN603	1-564-243-00	PIN, CONNECTOR 6P	
* CN604	1-564-514-11	PLUG, CONNECTOR 11P	
* CN605	1-564-342-11	PIN, CONNECTOR 8P	
* CN606	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
* CN607	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
CN608	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
CN609	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
CN610	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
CN611	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
* CN612	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
* CN613	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
* CN614	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	

< DIODE >

Ref. No.	Part No.	Description	Remark
D671	8-719-404-46	DIODE MA110	
D672	8-719-404-46	DIODE MA110	
D673	8-719-404-46	DIODE MA110	
D674	8-719-404-46	DIODE MA110	
D701	8-719-404-46	DIODE MA110	
D702	8-719-404-46	DIODE MA110	

< IC >

Ref. No.	Part No.	Description	Remark
IC361	8-759-170-72	IC NJM5532MD	
IC362	8-759-170-72	IC NJM5532MD	
IC364	8-759-170-72	IC NJM5532MD	
IC461	8-759-170-72	IC NJM5532MD	
IC601	8-759-195-91	IC uPC2505H(1)	
IC611	8-759-195-91	IC uPC2505H(1)	
IC621	8-759-178-19	IC UPC2505H	
IC631	8-759-178-19	IC UPC2505H	
IC641	8-759-195-91	IC uPC2505H(1)	
IC651	8-759-178-19	IC UPC2505H	
IC661	8-759-178-19	IC UPC2505H	
IC701	8-759-635-26	IC M5283P	
IC702	8-759-636-55	IC M5218AFP	
IC703	8-759-636-55	IC M5218AFP	
IC704	8-759-636-55	IC M5218AFP	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remark
Q460	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q461	8-729-805-67	TRANSISTOR 2SA1342	
Q462	8-729-805-43	TRANSISTOR 2SC3396	
Q463	8-729-805-43	TRANSISTOR 2SC3396	
Q601	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q611	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q621	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q631	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q641	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q651	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q661	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q671	8-729-805-67	TRANSISTOR 2SA1342	
Q672	8-729-805-43	TRANSISTOR 2SC3396	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R161	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R162	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R163	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R164	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R165	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R168	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R169	1-216-067-91	METAL GLAZE 5.6K 5% 1/10W	
R261	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R262	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R263	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R264	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R265	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R268	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R269	1-216-067-91	METAL GLAZE 5.6K 5% 1/10W	
R461	1-216-067-91	METAL GLAZE 5.6K 5% 1/10W	
R462	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R463	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R464	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R467	1-216-057-91	METAL GLAZE 2.2K 5% 1/10W	
R468	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R469	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	

US, CND, AEP, UK model: Last digit – 13 or later

Ref.No.	Part No.	Description				Remark
R470	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R471	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R472	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R601	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R602	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R603	1-216-011-00	METAL CHIP	27	5%	1/10W	
R604	1-216-011-00	METAL CHIP	27	5%	1/10W	
R605	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R606	1-216-049-00	METAL CHIP	1K	5%	1/10W	
⚠R607	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R608	1-249-381-11	CARBON	1	5%	1/4W	F
R609	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R611	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R612	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R613	1-216-011-00	METAL CHIP	27	5%	1/10W	
R614	1-216-011-00	METAL CHIP	27	5%	1/10W	
R615	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R616	1-216-049-00	METAL CHIP	1K	5%	1/10W	
⚠R617	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R618	1-249-381-11	CARBON	1	5%	1/4W	F
R619	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R621	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R622	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R623	1-216-015-00	METAL CHIP	39	5%	1/10W	
R624	1-216-015-00	METAL CHIP	39	5%	1/10W	
R625	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R626	1-216-049-00	METAL CHIP	1K	5%	1/10W	
⚠R627	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R628	1-249-381-11	CARBON	1	5%	1/4W	F
R629	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R631	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R632	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R633	1-216-015-00	METAL CHIP	39	5%	1/10W	
R634	1-216-015-00	METAL CHIP	39	5%	1/10W	
R635	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R636	1-216-049-00	METAL CHIP	1K	5%	1/10W	
⚠R637	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R638	1-249-381-11	CARBON	1	5%	1/4W	F
R639	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R641	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R642	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R643	1-216-009-00	METAL CHIP	22	5%	1/10W	
R644	1-216-009-00	METAL CHIP	22	5%	1/10W	
R645	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R646	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
⚠R647	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R648	1-249-381-11	CARBON	1	5%	1/4W	F
R649	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R651	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R652	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R653	1-216-015-00	METAL CHIP	39	5%	1/10W	
R654	1-216-015-00	METAL CHIP	39	5%	1/10W	
R655	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R656	1-216-049-00	METAL CHIP	1K	5%	1/10W	
⚠R657	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R658	1-249-381-11	CARBON	1	5%	1/4W	F
R659	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R661	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R662	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R663	1-216-009-00	METAL CHIP	22	5%	1/10W	
R664	1-216-009-00	METAL CHIP	22	5%	1/10W	
R665	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R666	1-216-049-00	METAL CHIP	1K	5%	1/10W	
⚠R667	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R668	1-249-381-11	CARBON	1	5%	1/4W	F
R669	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R671	1-216-025-00	METAL CHIP	100	5%	1/10W	
R672	1-216-025-00	METAL CHIP	100	5%	1/10W	
R673	1-216-025-00	METAL CHIP	100	5%	1/10W	
R674	1-216-025-00	METAL CHIP	100	5%	1/10W	
R681	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R682	1-216-112-00	METAL GLAZE	430K	5%	1/10W	
R683	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R684	1-216-112-00	METAL GLAZE	430K	5%	1/10W	
R685	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R686	1-216-112-00	METAL GLAZE	430K	5%	1/10W	
R687	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R688	1-216-112-00	METAL GLAZE	430K	5%	1/10W	
R689	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R690	1-216-112-00	METAL GLAZE	430K	5%	1/10W	
R691	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R692	1-216-112-00	METAL GLAZE	430K	5%	1/10W	
R693	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R694	1-216-112-00	METAL GLAZE	430K	5%	1/10W	
R701	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R702	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R703	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R704	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R705	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R706	1-216-096-00	METAL GLAZE	91K	5%	1/10W	
R707	1-216-066-00	METAL CHIP	5.1K	5%	1/10W	
R708	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R709	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R710	1-216-074-00	METAL CHIP	11K	5%	1/10W	
R711	1-216-074-00	METAL CHIP	11K	5%	1/10W	
R712	1-216-076-00	METAL CHIP	13K	5%	1/10W	
R713	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R714	1-216-066-00	METAL CHIP	5.1K	5%	1/10W	
R715	1-216-086-00	METAL GLAZE	36K	5%	1/10W	
R716	1-216-089-91	METAL GLAZE	47K	5%	1/10W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

POWER RELAY SYSTEM

US, CND, AEP, UK model: Last digit – 13 or later

Ref. No.	Part No.	Description	Remark
		< SPEAKER >	
SP901	1-504-277-11	SPEAKER (16CM)(ACTIVE SUPER WOOFER)	
SP902	1-504-277-11	SPEAKER (16CM)(ACTIVE SUPER WOOFER)	
SP903	1-504-276-11	SPEAKER (5CM)(TWEETER FRONT)	
SP904	1-504-276-11	SPEAKER (5CM)(TWEETER FRONT)	
SP906	1-504-275-11	SPEAKER (13CM)(WOOFER FRONT/CENTER)	
SP907	1-504-275-11	SPEAKER (13CM)(WOOFER FRONT/CENTER)	
SP908	1-504-276-11	SPEAKER (5CM)(TWEETER CENTER)	
SP909	1-504-276-11	SPEAKER (5CM)(TWEETER CENTER)	
SP910	1-504-299-11	SPEAKER (10CM)(REAR)	

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Ref. No.	Part No.	Description	Remark
*	1-648-817-11	RELAY BOARD ***********	
		< CAPACITOR >	
C560	1-124-907-11	ELECT 10uF 20% 50V	
		< CONNECTOR >	
* CN551	1-564-512-11	PLUG, CONNECTOR 9P	
* CN552	1-564-512-11	PLUG, CONNECTOR 9P	
		< DIODE >	
D551	8-719-210-33	DIODE EC10DS2	
		< TRANSISTOR >	
Q551	8-729-281-53	TRANSISTOR 2SC1815-GR	
		< RESISTOR >	
R551	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R552	1-216-097-00	METAL CHIP 100K 5% 1/10W	
		< RELAY >	
RY551	1-515-519-00	RELAY	

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Ref. No.	Part No.	Description	Remark
*	A-4365-090-A	SYSTEM BOARD, COMPLETE **********************	
*	4-945-292-01	HOLDER, INDICATION TUBE	
	4-960-249-01	MASK (A)	
		< CAPACITOR >	
C801	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C802	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C804	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C806	1-137-306-11	FILM CHIP 0.1uF 5% 16V	
C807	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C808	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C810	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C812	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C813	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C817	1-126-206-11	ELECT CHIP 100uF 20% 6.3V	
C820	1-126-193-11	ELECT 1uF 20% 50V	
C821	1-163-135-00	CERAMIC CHIP 560PF 5% 50V	
C822	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C823	1-163-135-00	CERAMIC CHIP 560PF 5% 50V	
		< CONNECTOR >	
* CN801	1-564-342-11	PIN, CONNECTOR 8P	
* CN802	1-564-341-11	PIN, CONNECTOR 7P	
CN804	1-569-932-11	SOCKET, CONNECTOR 15P	
* CN805	1-564-338-00	PIN, CONNECTOR 4P	
* CN806	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P	
		< DIODE >	
D801	8-719-404-46	DIODE MA110	
D802	8-719-404-46	DIODE MA110	
D803	8-719-404-46	DIODE MA110	
D804	8-719-043-06	DIODE HLMK-D200	
D805	8-719-042-98	DIODE HLMP-4000	
D807	8-719-043-00	DIODE HLMK-D500	
D808	8-719-043-00	DIODE HLMK-D500	
D809	8-719-043-08	DIODE HLMK-D300	
D810	8-719-043-08	DIODE HLMK-D300	
D811	8-719-043-08	DIODE HLMK-D300	
D814	8-719-043-08	DIODE HLMK-D300	
D815	8-719-404-46	DIODE MA110	
D816	8-719-404-46	DIODE MA110	
		< FLUORESCENT INDICATOR >	
FL801	1-517-180-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC801	8-759-196-19	IC M38022M4-078FP	
IC802	8-759-077-16	IC M66004M4FP	
IC804	8-759-178-21	IC M62354FP	
IC805	8-759-636-56	IC M66311FP	
IC806	8-759-504-40	IC S-80741AL-A5	
IC807	8-749-923-43	IC GP1U57XB	
		< COIL >	
L801	1-410-216-31	INDUCTOR CHIP 100uH	
L802	1-410-216-31	INDUCTOR CHIP 100uH	
L803	1-410-216-31	INDUCTOR CHIP 100uH	
		< TRANSISTOR >	
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

Ref. No.	Part No.	Description				Remark
Q802	8-729-900-36	TRANSISTOR	DTC124ES			
		< RESISTOR >				
R802	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R803	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R804	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R805	1-216-025-00	METAL CHIP	100	5%	1/10W	
R806	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R807	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R808	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R809	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R810	1-216-039-00	METAL CHIP	390	5%	1/10W	
R811	1-216-039-00	METAL CHIP	390	5%	1/10W	
R812	1-216-039-00	METAL CHIP	390	5%	1/10W	
R813	1-216-039-00	METAL CHIP	390	5%	1/10W	
R815	1-216-039-00	METAL CHIP	390	5%	1/10W	
R816	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W	
R817	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W	
R818	1-216-642-11	METAL CHIP	430	0.5%	1/10W	
R819	1-216-644-11	METAL CHIP	510	0.5%	1/10W	
R820	1-216-646-11	METAL CHIP	620	0.5%	1/10W	
R821	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R825	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R828	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R830	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W	
R831	1-216-642-11	METAL CHIP	430	0.5%	1/10W	
R832	1-216-644-11	METAL CHIP	510	0.5%	1/10W	
R833	1-216-646-11	METAL CHIP	620	0.5%	1/10W	
R834	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R835	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	
R836	1-216-654-11	METAL CHIP	1.3K	0.5%	1/10W	
R839	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W	
R840	1-216-642-11	METAL CHIP	430	0.5%	1/10W	
R841	1-216-644-11	METAL CHIP	510	0.5%	1/10W	
R842	1-216-646-11	METAL CHIP	620	0.5%	1/10W	
R843	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R844	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	
R845	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R846	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R847	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R848	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R849	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R850	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R851	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R852	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R853	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R857	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R858	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R859	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R860	1-216-049-00	METAL CHIP	1K	5%	1/10W	

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S801	1-692-607-11	SWITCH, TACTIL (POWER)	
S802	1-692-607-11	SWITCH, TACTIL (INPUT 1, 2)	
S804	1-692-607-11	SWITCH, TACTIL (DOLBY PRO-LOGIC)	
S805	1-692-607-11	SWITCH, TACTIL (SURROUND)	
S806	1-692-607-11	SWITCH, TACTIL (SUPER WOOFER)	
S808	1-692-607-11	SWITCH, TACTIL (MUTE)	
S809	1-692-608-11	SWITCH, TACTIL (STANDARD LEVEL)	
S810	1-692-608-11	SWITCH, TACTIL (CENTER LEVEL +)	
S811	1-692-608-11	SWITCH, TACTIL (CENTER LEVEL -)	
S812	1-692-608-11	SWITCH, TACTIL (REAR LEVEL +)	
S813	1-692-608-11	SWITCH, TACTIL (REAR LEVEL -)	
S814	1-692-608-11	SWITCH, TACTIL (SUPER WF LEVEL +)	
S815	1-692-608-11	SWITCH, TACTIL (SUPER WF LEVEL -)	
S816	1-692-608-11	SWITCH, TACTIL (BASS BOOST)	
S817	1-692-608-11	SWITCH, TACTIL (PRO-LOGIC MODE)	
S818	1-692-608-11	SWITCH, TACTIL (SURROUND MODE)	
S819	1-692-608-11	SWITCH, TACTIL (TEST TONE)	
S820	1-692-608-11	SWITCH, TACTIL (DELAY)	
S821	1-692-608-11	SWITCH, TACTIL (DISPLAY)	
		< VIBRATOR >	
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	

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* A-4365-096-A TONE BOARD, COMPLETE

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Ref. No.	Part No.	Description				Remark
		< CAPACITOR >				
C152	1-163-107-00	CERAMIC CHIP	39PF	5%	50V	
C153	1-123-369-00	ELECT	4.7uF	20%	50V	
C154	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C155	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C156	1-130-477-00	MYLAR	0.0033uF	5%	50V	
C157	1-130-477-00	MYLAR	0.0033uF	5%	50V	
C158	1-124-910-11	ELECT	47uF	20%	50V	
C252	1-163-107-00	CERAMIC CHIP	39PF	5%	50V	
C253	1-123-369-00	ELECT	4.7uF	20%	50V	
C254	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C255	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C256	1-130-477-00	MYLAR	0.0033uF	5%	50V	
C257	1-130-477-00	MYLAR	0.0033uF	5%	50V	
C258	1-124-910-11	ELECT	47uF	20%	50V	
C351	1-124-122-11	ELECT	100uF	20%	50V	
C352	1-124-122-11	ELECT	100uF	20%	50V	
C465	1-136-159-00	FILM	0.033uF	5%	50V	
		< CONNECTOR >				
* CN303	1-564-514-11	PLUG, CONNECTOR 11P				

TONE VOL

US, CND, AEP, UK model: Last digit – 13 or later

Ref.No.	Part No.	Description	Remark
* CN304	1-564-514-11	PLUG, CONNECTOR 11P	
		< IC >	
IC351	8-759-636-55	IC M5218AFP	
		< RESISTOR >	
R151	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R152	1-216-119-00	METAL CHIP 820K 5% 1/10W	
R154	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R155	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R156	1-216-043-00	METAL CHIP 560 5% 1/10W	
R157	1-216-067-91	METAL GLAZE 5.6K 5% 1/10W	
R251	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R252	1-216-119-00	METAL CHIP 820K 5% 1/10W	
R254	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R255	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R256	1-216-043-00	METAL CHIP 560 5% 1/10W	
R257	1-216-067-91	METAL GLAZE 5.6K 5% 1/10W	
R259	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R260	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R465	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
		< VARIABLE RESISTOR >	
RV351	1-223-453-11	RES, VAR, CARBON 100K/100K (BASS)	
RV352	1-223-453-11	RES, VAR, CARBON 100K/100K (TREBLE)	
RV353	1-223-412-11	RES, VAR, CARBON 250K/250K (BALANCE)	
RV354	1-223-411-11	RES, VAR, CARBON 20K/20K (CENTER TONE)	

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Ref.No.	Part No.	Description	Remark
*	1-648-812-11	VOL BOARD *********	
		< CONNECTOR >	
* CN525	1-564-514-11	PLUG, CONNECTOR 11P	
* CN526	1-564-514-11	PLUG, CONNECTOR 11P	
CN527	1-564-505-11	PLUG, CONNECTOR 2P	
* CN528	1-564-338-00	PIN, CONNECTOR 4P	
		< IC >	
IC525	8-759-820-62	IC LB1639	
		< VARIABLE RESISTOR >	
VR525	1-223-413-11	RES, VAR, CARBON 20KX4 (MASTER VOLUME)	

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MISCELLANEOUS
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Ref.No.	Part No.	Description	Remark
77	1-537-364-11	TERMINAL BOARD	
⚠80	1-526-882-00	OUTLET, AC (US, CND)	
⚠82	1-559-479-11	CORD, POWER (US, CND)	
⚠82	1-575-651-21	CORD, POWER (AEP)	
⚠82	1-696-571-11	CORD, POWER (UK)	
117	1-751-407-11	WIRE, PARALLEL (FFC) (15 CORE)	
⚠F911	1-532-745-11	FUSE, GLASS TUBE 3.15A, 125V	
SP901	1-504-277-11	SPEAKER (16CM) (ACTIVE SUPER WOOFER)	
SP902	1-504-277-11	SPEAKER (16CM) (ACTIVE SUPER WOOFER)	
SP903	1-504-276-11	SPEAKER (5CM) (TWEETER CENTER)	
SP904	1-504-276-11	SPEAKER (5CM) (TWEETER CENTER)	
SP906	1-504-275-11	SPEAKER (13CM) (WOOFER FRONT/CENTER)	
SP907	1-504-275-11	SPEAKER (13CM) (WOOFER FRONT/CENTER)	
SP908	1-504-276-11	SPEAKER (5CM) (TWEETER FRONT)	
SP909	1-504-276-11	SPEAKER (5CM) (TWEETER FRONT)	
SP910	1-504-299-11	SPEAKER (10CM) (REAR)	
⚠T901	1-423-687-11	TRANSFORMER, POWER	
⚠T901	1-423-687-12	TRANSFORMER, POWER (US, CND)	
⚠T901	1-423-884-11	TRANSFORMER, POWER (AEP)	
⚠T901	1-423-885-11	TRANSFORMER, POWER (UK)	

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ACCESSORIES & PACKING MATERIALS
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Ref.No.	Part No.	Description	Remark
	1-467-188-11	REMOTE COMMANDER (RM-VA3)	
	1-751-234-11	CORD, CONNECTION	
	1-751-347-11	CORD, CONNECTION (REAR SPEAKER CABLE)	
	1-751-474-11	CORD, CONNECTION (AUDIO CABLE)	
	3-756-929-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE, GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP, UK)	
	3-756-929-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
	3-756-929-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (CND)	
	4-384-285-01	COVER, BATTERY (COMMANDER)	
*	4-950-766-01	LABEL, FCC DIGITAL DEVICE	
	4-959-294-01	CUSHION (C)	
	4-959-294-02	CUSHION (C)	
*	4-959-595-01	CUSHION (UPPER)	
*	4-959-596-01	CUSHION (LOWER)	
*	4-959-629-01	INDIVIDUAL CARTON	

****

****
HARDWARE LIST
****

Ref.No.	Part No.	Description	Remark
#1	7-685-659-79	SCREW +BVTP 4X8 TYPE2 IT-3	
#2	7-621-846-60	SCREW (4X25), TAPPING	
#3	7-682-547-09	SCREW +BVTT 3X6 (S)	
#4	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
#5	7-682-561-04	SCREW +BVTT 4X8 (S)	
#6	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
#7	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT	
#8	7-624-200-11	NUT, PUSH 2	
#9	7-682-548-04	SCREW +BVTT 3X8 (S)	
#10	7-682-950-01	SCREW +PSW 3X12	
#11	7-682-560-04	SCREW +BVTT 4X6 (S)	

9-957-848-12

Sony Corporation
Audio Group

English
93H0981-1
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Published by Audio Sector Quality Assurance Dept.

SA-VA3

SONY
SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model

SUPPLEMENT-1

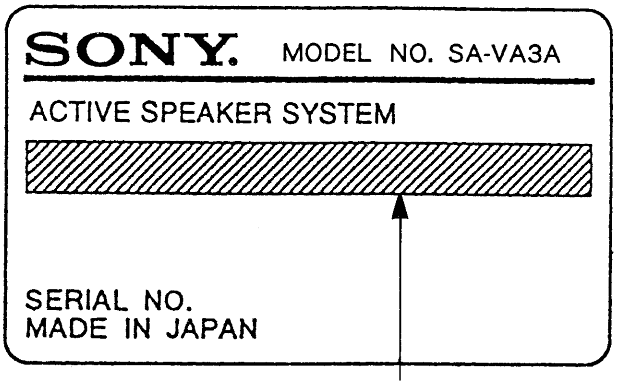
File this Supplement with the Service Manual.

Subject : Board Change

This SUPPLEMENT-1 is applied to models with the model No. SA-VA3A.

MODEL IDENTIFICATION

— SPECIFICATION LABEL —



SONY MODEL NO. SA-VA3A

ACTIVE SPEAKER SYSTEM

SERIAL NO.
MADE IN JAPAN

US, Canadian MODEL : AC120V 60Hz 105W
AEP MODEL : AC220V – 230V 50/60Hz 95W
UK MODEL : AC240V 50/60Hz 95W

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IC701 System Control IC (M38022M4-078FP) 24

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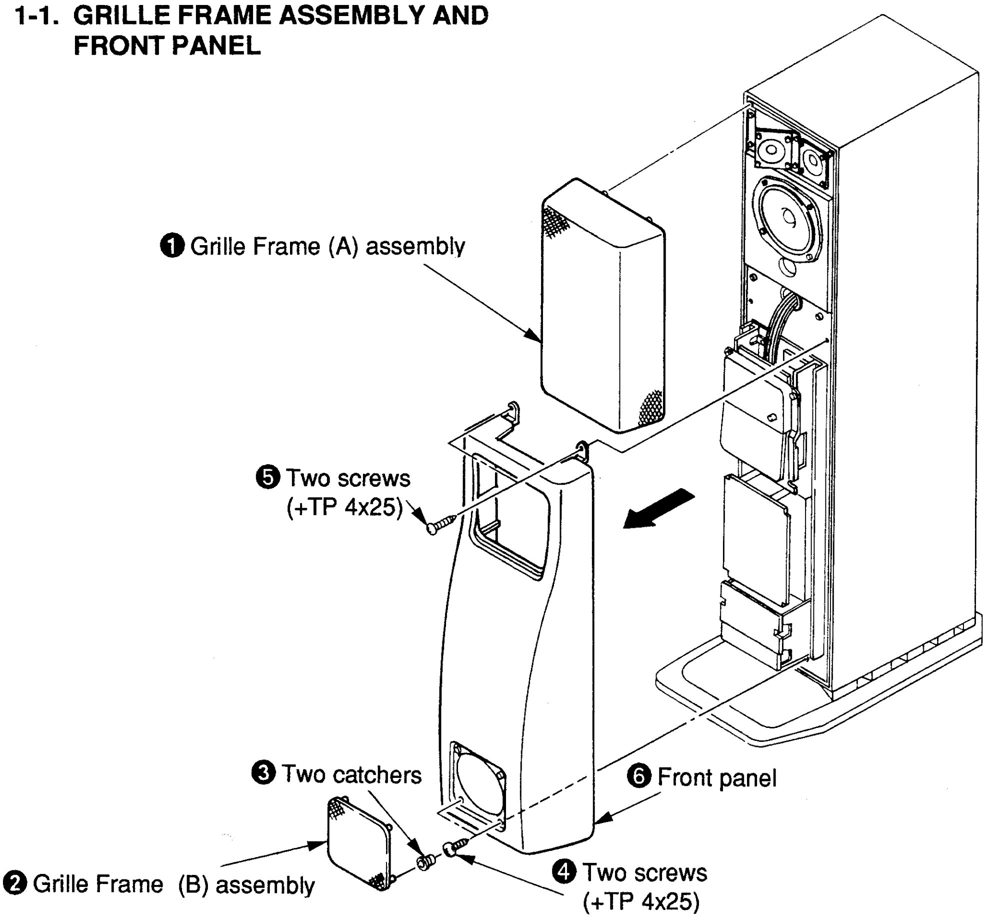
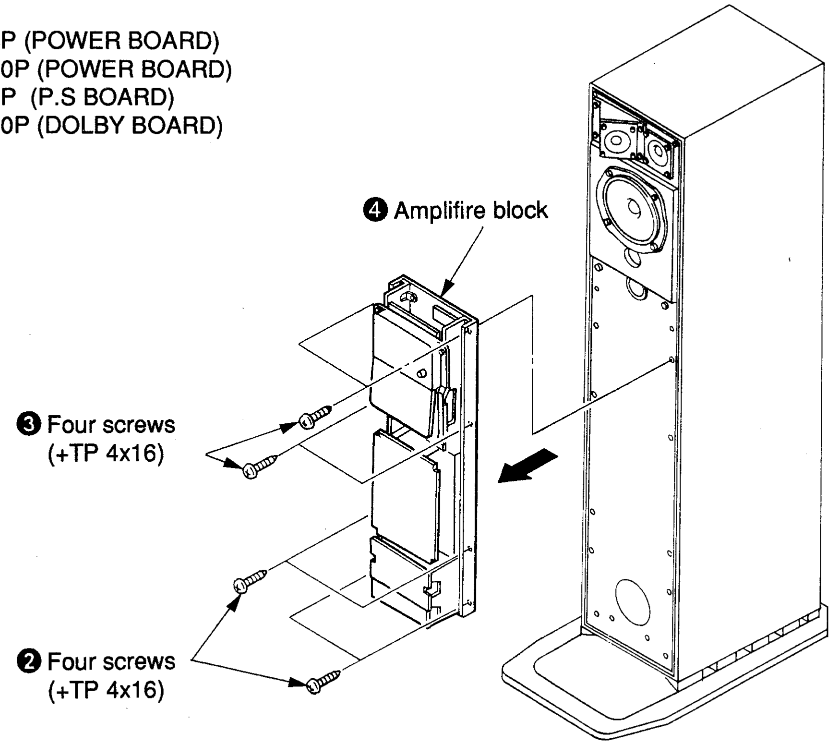
SECTION 1
DISASSEMBLY

1-1. GRILLE FRAME ASSEMBLY AND FRONT PANEL

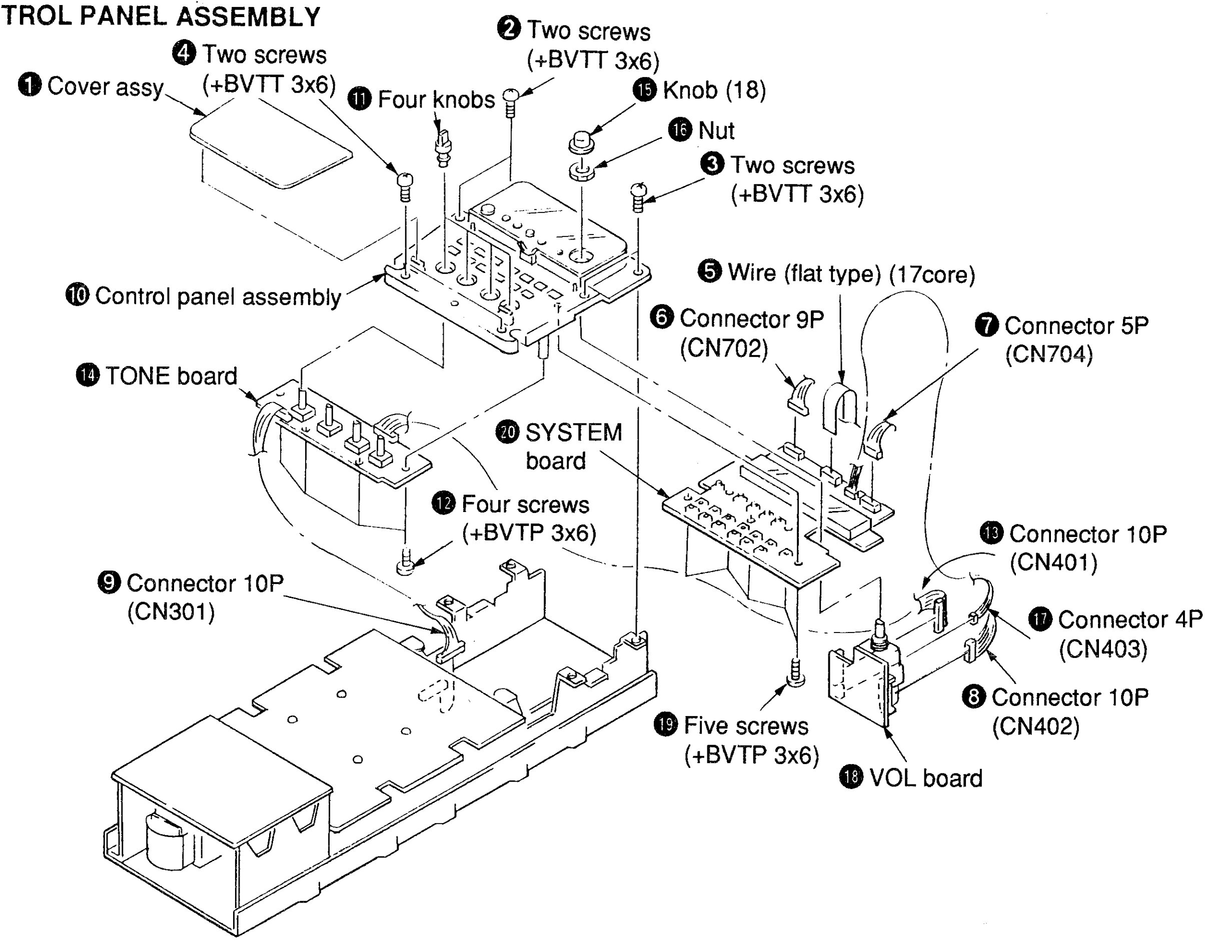

❶ Grille Frame (A) assembly
❺ Two screws
(+TP 4x25)
❸ Two catchers
❻ Front panel
❷ Grille Frame (B) assembly
❹ Two screws
(+TP 4x25)

1-2. AMPLIFIRE BLOCK

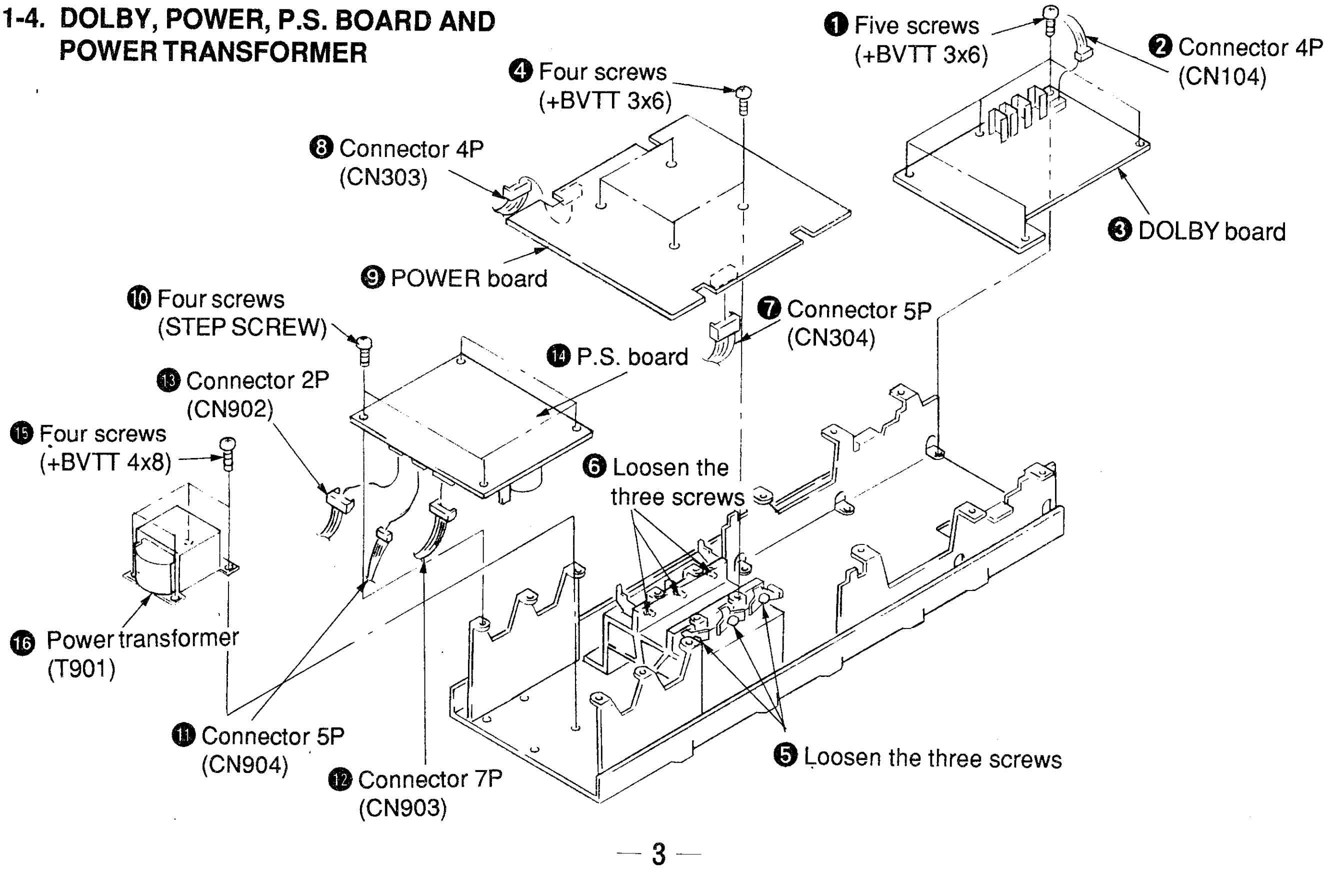
❶ CN305 8P (POWER BOARD)
CN306 10P (POWER BOARD)
CN901 2P (P.S BOARD)
CN101 10P (DOLBY BOARD)


❹ Amplifire block
❸ Four screws
(+TP 4x16)
❷ Four screws
(+TP 4x16)

1-3. SYSTEM, VOL, TONE BOARD AND CONTROL PANEL ASSEMBLY

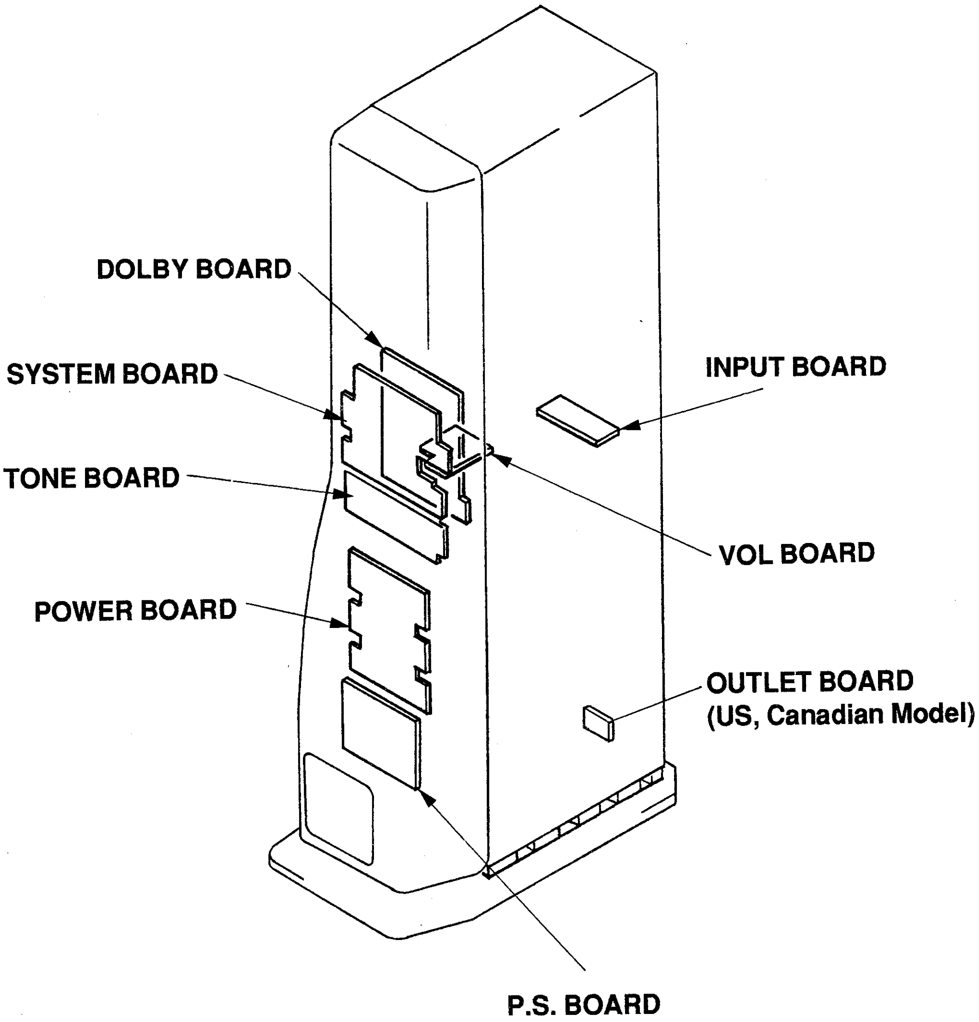

② Two screws (+BVTT 3x6)
④ Two screws (+BVTT 3x6)
① Cover assy
⑪ Four knobs
⑮ Knob (18)
⑯ Nut
③ Two screws (+BVTT 3x6)
⑩ Control panel assembly
⑤ Wire (flat type) (17core)
⑥ Connector 9P (CN702)
⑦ Connector 5P (CN704)
⑭ TONE board
⑳ SYSTEM board
⑫ Four screws (+BVTP 3x6)
⑬ Connector 10P (CN401)
⑨ Connector 10P (CN301)
⑰ Connector 4P (CN403)
⑧ Connector 10P (CN402)
⑲ Five screws (+BVTP 3x6)
⑱ VOL board

1-4. DOLBY, POWER, P.S. BOARD AND POWER TRANSFORMER

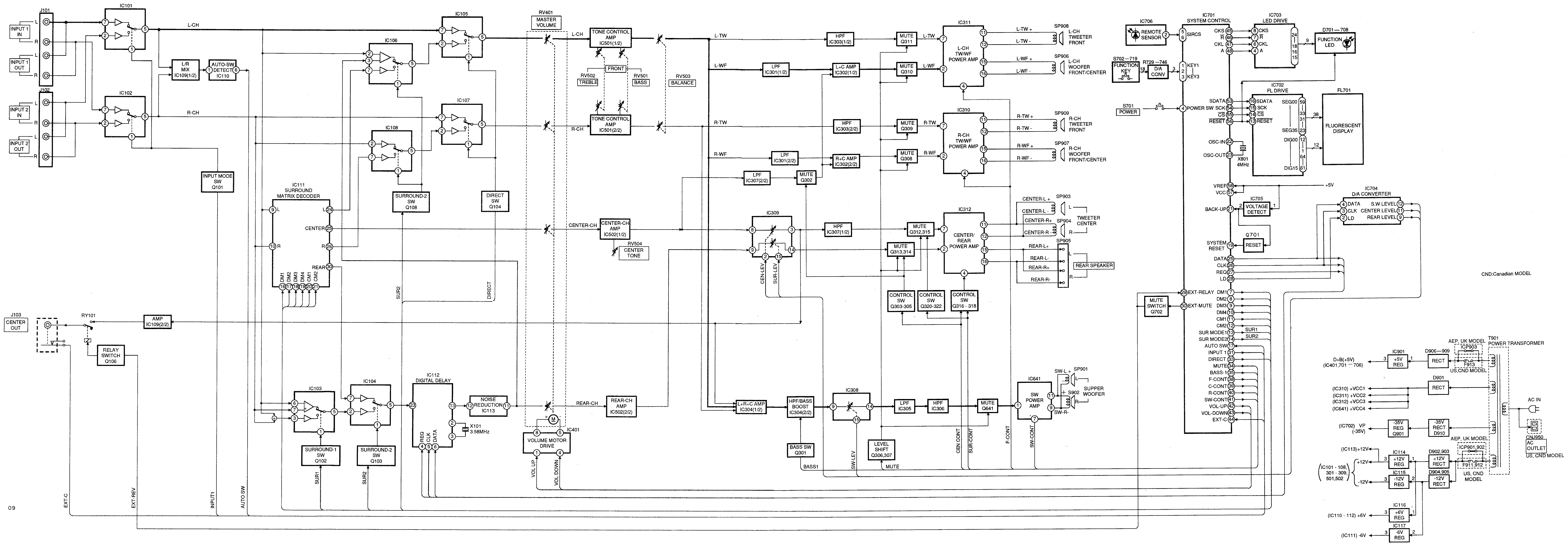

① Five screws (+BVTT 3x6)
② Connector 4P (CN104)
④ Four screws (+BVTT 3x6)
⑧ Connector 4P (CN303)
③ DOLBY board
⑨ POWER board
⑩ Four screws (STEP SCREW)
⑦ Connector 5P (CN304)
⑭ P.S. board
⑬ Connector 2P (CN902)
⑮ Four screws (+BVTT 4x8)
⑥ Loosen the three screws
⑯ Power transformer (T901)
⑪ Connector 5P (CN904)
⑫ Connector 7P (CN903)
⑤ Loosen the three screws

SECTION 2
DIAGRAMS

2-1. CIRCUIT BOARDS LOCATION


DOLBY BOARD
SYSTEM BOARD
TONE BOARD
POWER BOARD
INPUT BOARD
VOL BOARD
OUTLET BOARD
(US, Canadian Model)
P.S. BOARD

2-2. BLOCK DIAGRAM


J101
INPUT 1 IN
INPUT 1 OUT
J102
INPUT 2 IN
INPUT 2 OUT
IC101
IC102
L-CH
R-CH
L/R MIX IC109(1/2)
AUTO-SW DETECT IC110
INPUT MODE SW Q101
IC105
IC106
IC107
IC108
IC111 SURROUND MATRIX DECODER
CENTER
REAR
DM1 DM2 DM3 DM4 CM1 CM2
SURROUND-2 SW Q108
DIRECT SW Q104
SUR2
DIRECT
J103 CENTER OUT
RY101
AMP IC109(2/2)
RELAY SWITCH Q106
IC103
IC104
SURROUND-1 SW Q102
SURROUND-2 SW Q103
SUR1
IC112 DIGITAL DELAY
REQ CLK DATA
X101 3.58MHz
NOISE REDUCTION IC113
RV401 MASTER VOLUME
IC401 VOLUME MOTOR DRIVE
VOL UP
VOL DOWN
TONE CONTROL AMP IC501(1/2)
TONE CONTROL AMP IC501(2/2)
RV502 TREBLE
FRONT
RV501 BASS
RV503 BALANCE
CENTER-CH
CENTER-CH AMP IC502(1/2)
RV504 CENTER TONE
REAR-CH
REAR-CH AMP IC502(2/2)
L-TW
L-WF
R-TW
R-WF
HPF IC303(1/2)
LPF IC301(1/2)
L+C AMP IC302(1/2)
HPF IC303(2/2)
LPF IC301(2/2)
R+C AMP IC302(2/2)
LPF IC307(2/2)
MUTE Q302
MUTE Q311
MUTE Q310
MUTE Q309
MUTE Q308
IC311 L-CH TW/WF POWER AMP
IC310 R-CH TW/WF POWER AMP
IC309
CEN-LEV
SUR-LEV
HPF IC307(1/2)
MUTE Q312,315
MUTE Q313,314
IC312 CENTER/REAR POWER AMP
CONTROL SW Q303-305
CONTROL SW Q320-322
CONTROL SW Q316 - 318
SP908 L-CH TWEETER FRONT
SP906 L-CH WOOFER FRONT/CENTER
SP909 R-CH TWEETER FRONT
SP907 R-CH WOOFER FRONT/CENTER
SP903
SP904 TWEETER CENTER
SP905
REAR SPEAKER
L-TW + L-TW - L-WF + L-WF -
R-TW + R-TW - R-WF + R-WF -
CENTER-L + CENTER-L - CENTER-R+ CENTER-R-
REAR-L+ REAR-L- REAR-R+ REAR-R-
L+R+C AMP IC304(1/2)
HPF/BASS BOOST IC304(2/2)
BASS SW Q301
BASS1
IC308
SW-LEV
LEVEL SHIFT Q306,307
MUTE
LPF IC305
HPF IC306
MUTE Q641
CEN-CONT
SUR-CONT
F-CONT
SW-CONT
IC641 SW POWER AMP
SP901 SUPPER WOOFER
SP902
SW-L+
SW-R-
IC706 REMOTE SENSOR
S702—719 FUNCTION KEY
R729—746 D/A CONV
S701 POWER
IC701 SYSTEM CONTROL
SIRCS
KEY1
KEY3
POWER SW
CKS R CKL A
SDATA SCK CS RESET
OSC-IN OSC-OUT
X801 4MHz
VREF VCC
BACK-UP
SYSTEM RESET
DATA CLK REQ LD
EXT-RELAY DM1 DM2 DM3 DM4 CM1 CM2
EXT-MUTE
SUR MODE1 SUR MODE2 AUTO SW INPUT 1 DIRECT MUTE BASS-1 F-CONT C-CONT R-CONT SW-CONT VOL-UP VOL-DOWN EXT-C
SUR1 SUR2
MUTE SWITCH Q702
IC703 LED DRIVE
D701—708 FUNCTION LED
IC702 FL DRIVE
SEG00 SEG35 DIG00 DIG15
FL701 FLUORESCENT DISPLAY
+5V
IC705 VOLTAGE DETECT
Q701 RESET
IC704 D/A CONVERTER
S.W LEVEL CENTER LEVEL REAR LEVEL
D-B(+5V) (IC401,701－706)
IC901 +5V REG
D906—909 RECT
AEP, UK MODEL
ICP903
F913 US,CND MODEL
T901 POWER TRANSFORMER
D901 RECT
(IC310) +VCC1
(IC311) +VCC2
(IC312) +VCC3
(IC641) +VCC4
(IC702) VP (-35V)
-35V REG Q901
-35V RECT D910
AC IN
CN950 AC OUTLET US, CND MODEL
(IC113)+12V
IC114 +12V REG
D902,903 +12V RECT
AEP, UK MODEL ICP901,902
F911,912 US, CND MODEL
(IC101 - 108, 301 - 309, 501,502) +12V -12V
IC115 -12V REG
D904,905 -12V RECT
IC116 +6V REG
(IC110 - 112) +6V
IC117 -6V REG
(IC111) -6V
EXT-C
EXT-REV
INPUT1
AUTO SW
09

CND:Canadian MODEL

2-3. PRINTED WIRING BOARDS — MAIN SECTION —

- See page 4 for Circuit Boards Location.
- See page 23 for Semiconductor Lead Layouts.

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D101	C-11	IC305	J-24
D102	A-12	IC306	J-26
D103	F-14	IC307	B-24
D701	J-19	IC308	K-23
D702	J-19	IC309	C-26
D703	J-19	IC310	G-20
D704	J-19	IC311	D-20
D705	K-24	IC312	D-24
D706	K-24	IC313	G-24
D901	D-35	IC401	F-7
D902	D-33	IC501	J-2
D903	D-33	IC502	J-9
D904	D-32	IC901	B-31
D905	D-32		
D906	D-31	Q101	D-12
D907	D-32	Q102	D-11
D908	D-31	Q103	F-11
D909	D-31	Q104	D-14
D910	D-30	Q105	E-14
D911	B-30	Q106	A-13
D912	B-29	Q301	D-22
		Q302	A-24
IC101	D-13	Q303	J-22
IC102	D-11	Q304	J-22
IC103	E-12	Q305	K-22
IC104	F-12	Q306	K-19
IC105	D-13	Q307	K-19
IC106	D-13	Q308	I-21
IC107	C-15	Q309	H-21
IC108	D-15	Q310	F-21
IC109	C-13	Q311	E-21
IC110	E-15	Q312	D-23
IC111	H-11	Q313	E-23
IC112	J-15	Q314	D-23
IC113	H-15	Q315	F-23
IC114	C-11	Q316	J-20
IC115	D-11	Q317	J-20
IC116	D-11	Q318	J-20
IC117	E-11	Q320	J-20
IC301	B-21	Q321	J-21
IC302	B-19	Q322	J-21
IC303	C-19	Q641	F-23
IC304	C-22	Q901	B-29

[INPUT BOARD]
[INPUT BOARD]
[DOLBY BOARD]
[POWER BOARD]
[P.S. BOARD]
[VOL BOARD]
[TONE BOARD]
[OUTLET BOARD]
* The pattern of [ ] area modified in this version.
SYSTEM BOARD CN703
SYSTEM BOARD CN701
SYSTEM BOARD CN702
SYSTEM BOARD CN704
SP906 L-ch WOOFER FRONT/CENTER
SP908 L-ch TWEETER FRONT
SP903 L-ch TWEETER CENTER
SP905 REAR SPEAKER IMPEDANCE USE 8Ω ONLY
SP901 L-ch SUPER WOOFER
T901 POWER TRANSFORMER
R-CH SPEAKERS SYSTEM
R-ch SPEAKER OUTPUT
R-ch SPEAKER INPUT
TWEETER FRONT
WOOFER FRONT/CENTER
SUPER WOOFER
TWEETER CENTER
CNJ950 AC OUTLET
AC IN
1-652-382-
(1-708-688-12)
US,CND MODEL (With OUTLET BOARD)
US,CND MODEL (Without OUTLET BOARD)

Note:

- o—— : parts extracted from the components side.
- ○ : Through hole.
- Δ : internal component.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.
- CND : Canadian model.

Note:

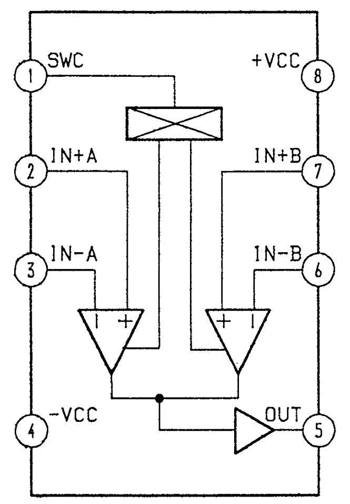
- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- ▭ : panel designation.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

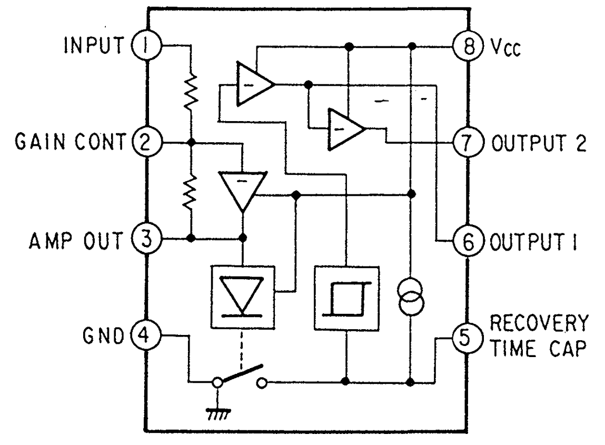
- ▬▬ : B+ Line
- ▬ ▬ ▬ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : A plug (input signal) is connected to the input jack J101. (operation LED D702 lights up.)
- Voltages are taken with a VOM (Input impedance 10MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨: L-CH SIGNAL (ACTIVE SUPER WOOFER SPEAKER)
- CND : Canadian model.

•IC BLOCK DIAGRAMS

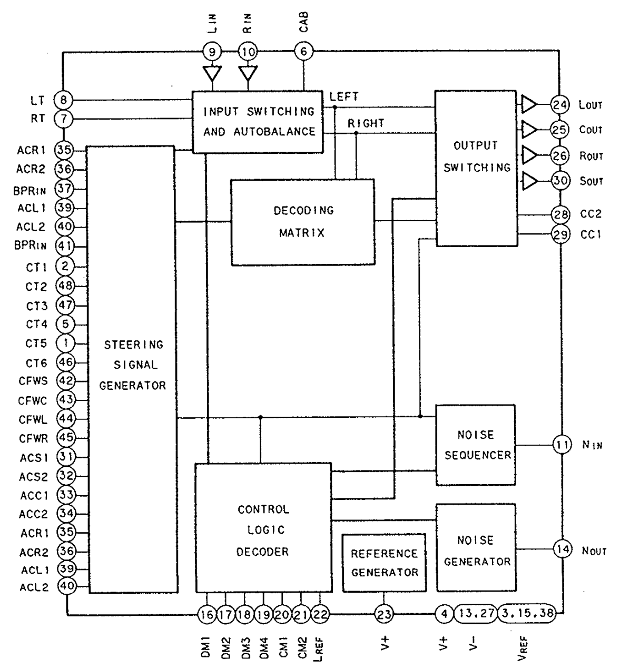
IC101, 102, 103, 104, 105, 106, 107, 108 M5201


SWC
+VCC
IN+A
IN+B
IN–A
IN–B
–VCC
OUT

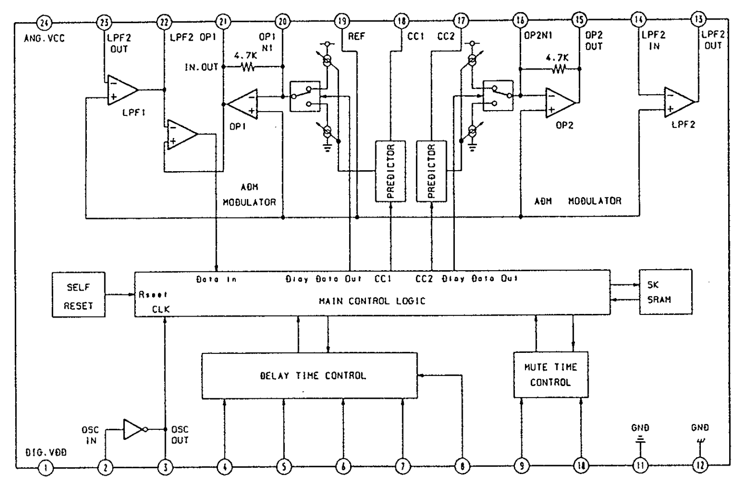
IC110 NJM2072M


INPUT
GAIN CONT
AMP OUT
GND
Vcc
OUTPUT 2
OUTPUT 1
RECOVERY TIME CAP

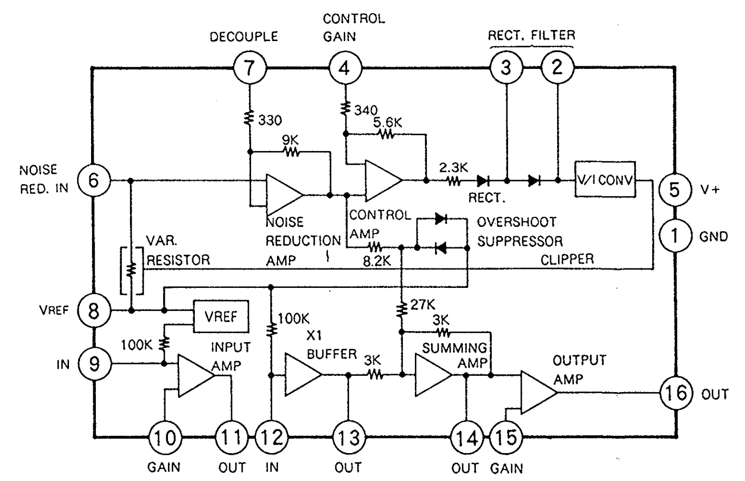
IC111 SSM2126A


INPUT SWITCHING AND AUTOBALANCE
DECODING MATRIX
OUTPUT SWITCHING
STEERING SIGNAL GENERATOR
CONTROL LOGIC DECODER
NOISE SEQUENCER
REFERENCE GENERATOR
NOISE GENERATOR
LEFT
RIGHT

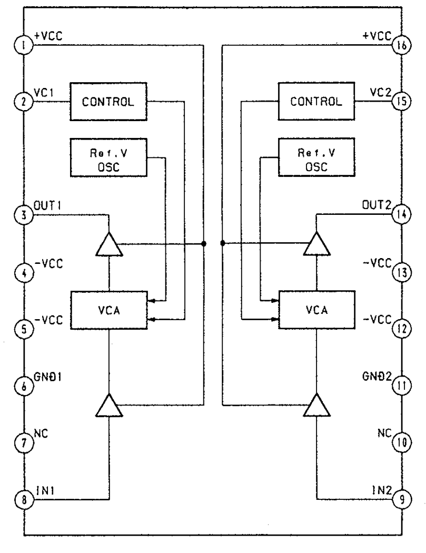
IC112 M50198P


MAIN CONTROL LOGIC
DELAY TIME CONTROL
MUTE TIME CONTROL

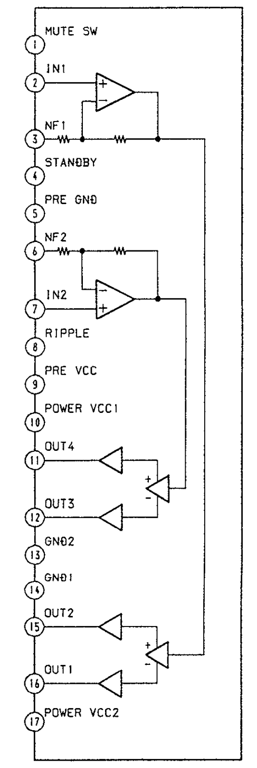
IC113 LA2730K


DECOUPLE
CONTROL GAIN
RECT. FILTER
NOISE RED. IN
VAR. RESISTOR
NOISE REDUCTION AMP
CONTROL AMP
RECT.
OVERSHOOT SUPPRESSOR
CLIPPER
V-I CONV
V+
GND
VREF
IN
INPUT AMP
BUFFER
SUMMING AMP
OUTPUT AMP
OUT
GAIN

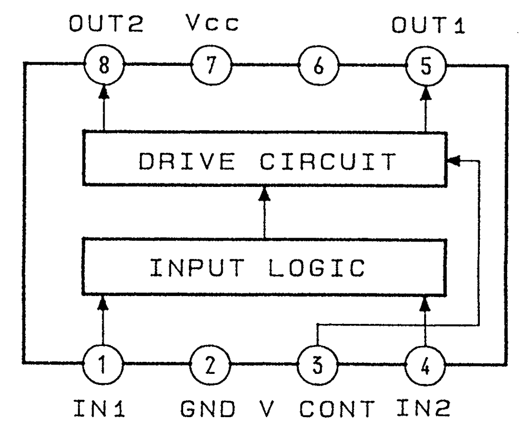
IC308, 309 M5283P


+VCC
CONTROL
OSC
VCA
OUT
–VCC
GND

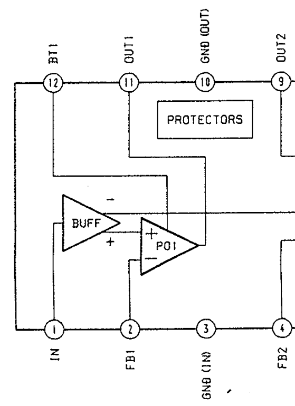
IC310, 311, 312 TA8221


MUTE SW
STANDBY
PRE GND
RIPPLE
PRE VCC
POWER VCC1
OUT4
OUT3
GND2
GND1
OUT2
OUT1
POWER VCC2

IC401 LB1639


OUT2
Vcc
OUT1
DRIVE CIRCUIT
INPUT LOGIC
IN1
GND
V CONT
IN2

IC641 uPC2505H

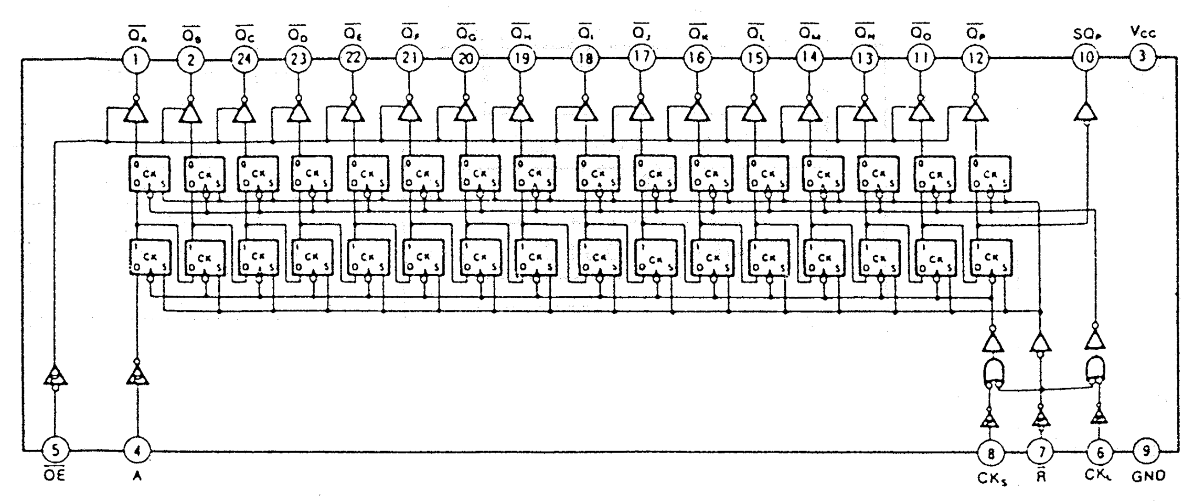

PROTECTORS
BUFF
PO1
PO2
STAND-BY SWITCH
FILTER

2-4. SCHEMATIC DIAGRAM — MAIN SECTION —

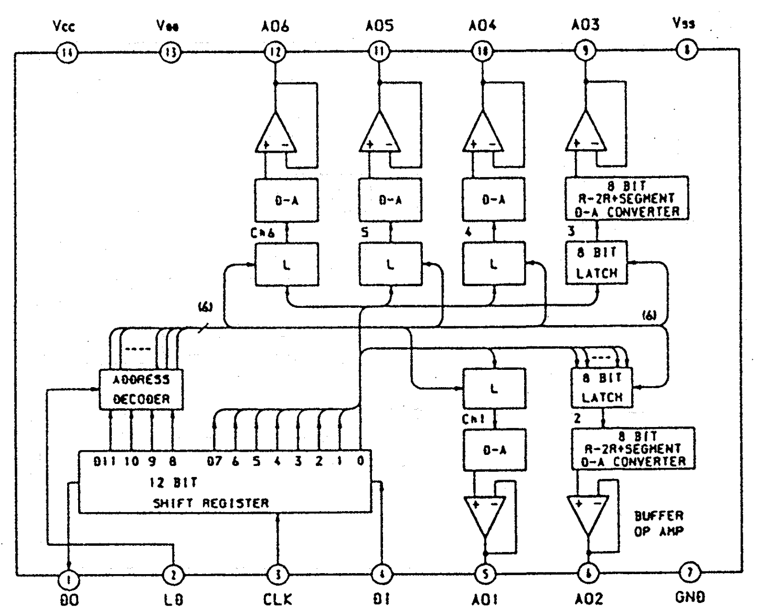
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
A
B
C
D
E
F
G
H
I
J
[INPUT BOARD]
[VOL BOARD]
[TONE BOARD]
[DOLBY BOARD]
[POWER BOARD]
[P.S. BOARD]
[OUTLET BOARD]
R-CH SPEAKERS SYSTEM
IC401
IC501
IC502
IC101
IC102
IC103
IC104
IC105
IC106
IC107
IC108
IC109
IC110
IC111 MATRIX DECODER
IC112 DIGITAL DELAY
IC113 NOISE REDUCTION
IC114
IC115
IC116
IC117
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC308
IC309
IC310 POWER AMP
IC311 POWER AMP
IC312 POWER AMP
IC641 POWER AMP (SUPER WOOFER)
IC901 +5V REG

•IC BLOCK DIAGRAMS

IC703 M66311FP

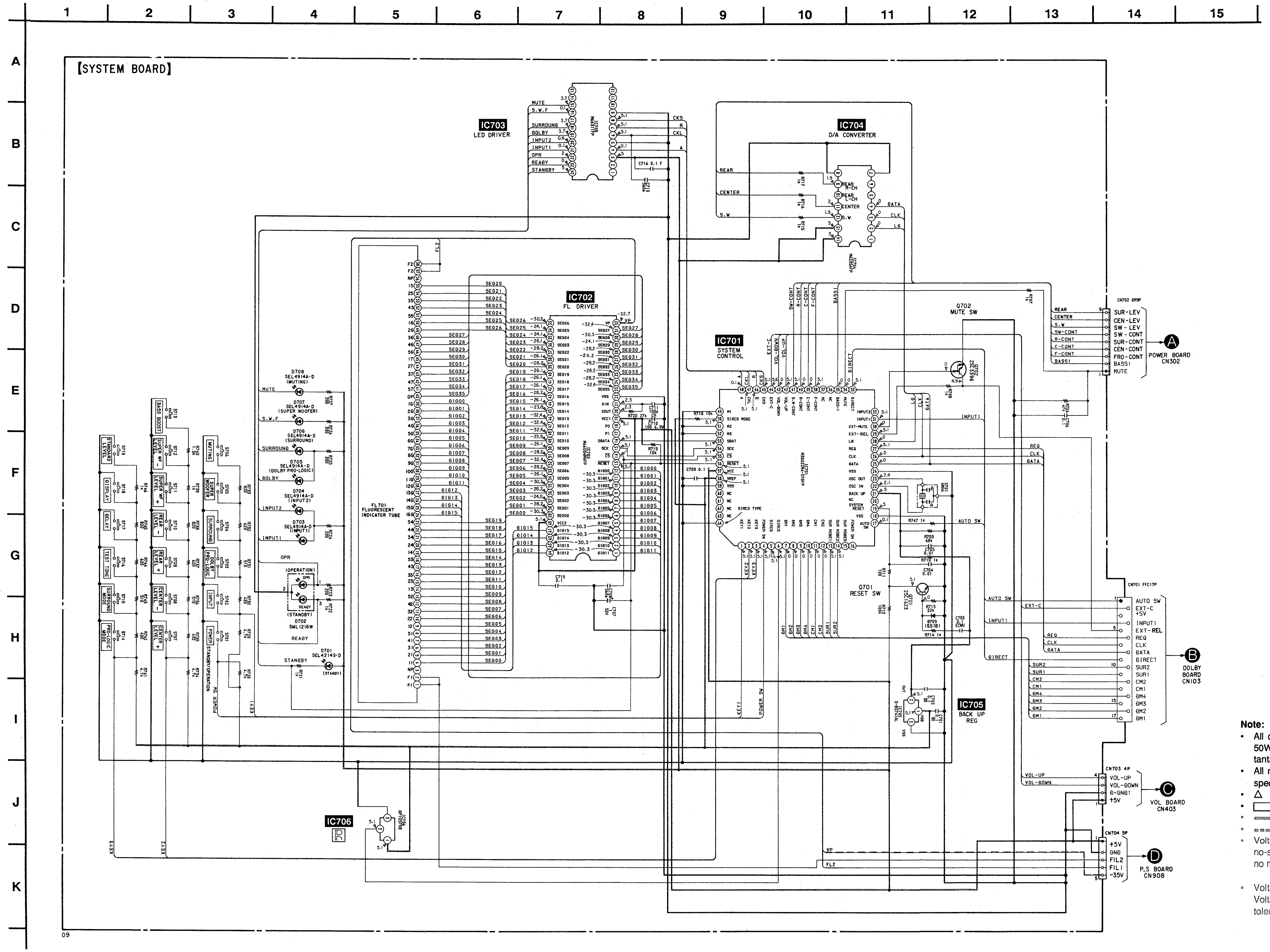

Vcc
SO
OE
A
CKs
R
CK
GND
LATCH
S-R

IC704 M62354FP


Vcc
Vss
AO6
AO5
AO4
AO3
Vss
D-A
LATCH
8 BIT R-2R+SEGMENT D/A CONVERTER
8 BIT LATCH
ADDRESS DECODER
12 BIT SHIFT REGISTER
BUFFER OP AMP
DO
LD
CLK
DI
AO1
AO2
GND

2-5. SCHEMATIC DIAGRAM — DISPLAY SECTION —

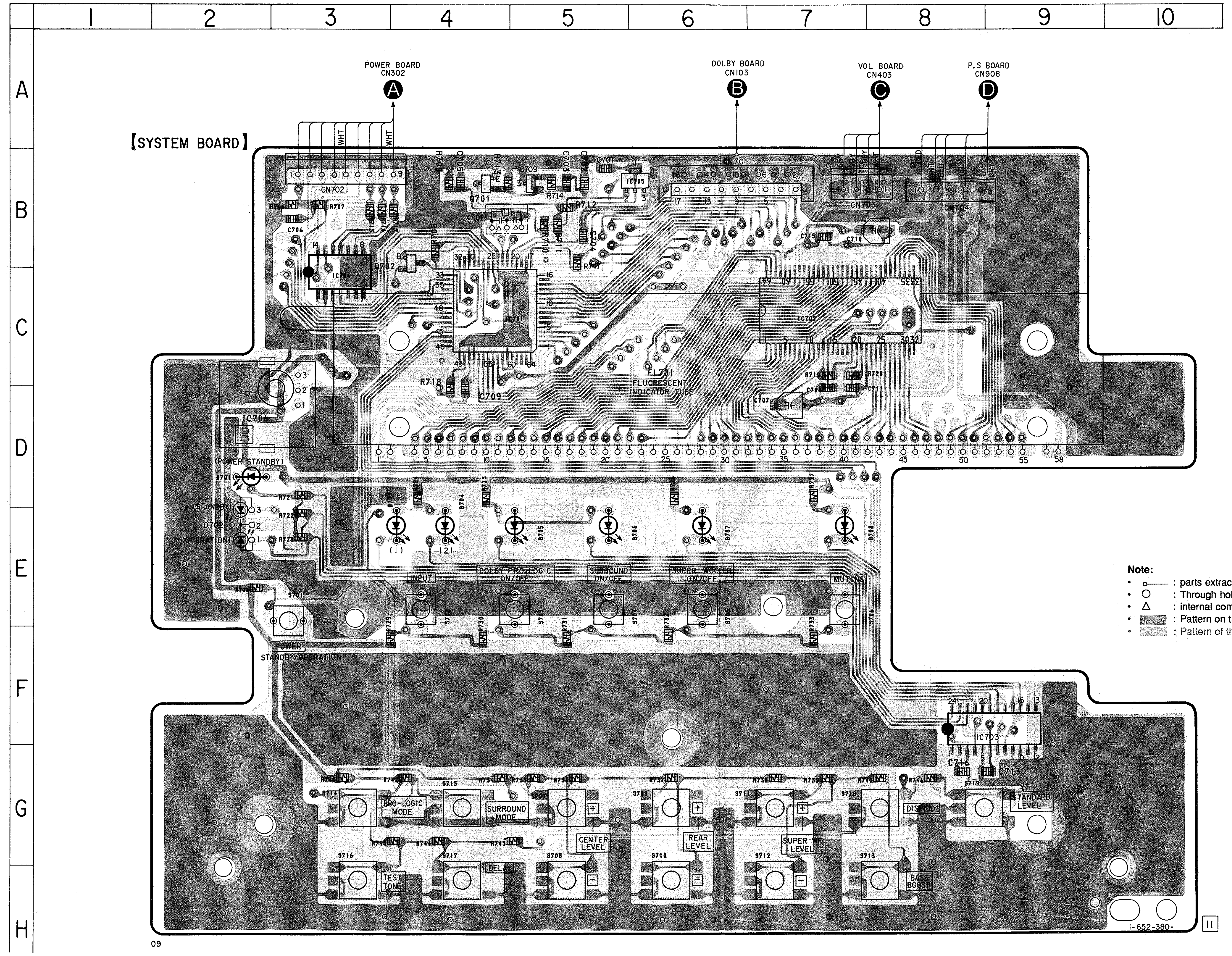
• See pages 24, 25 for IC Pin Functions. (IC701)


[SYSTEM BOARD]
IC703 LED DRIVER
IC704 D/A CONVERTER
IC702 FL DRIVER
IC701 SYSTEM CONTROL
IC705 BACK UP REG
IC706
Q702 MUTE SW
Q701 RESET SW
FL701 FLUORESCENT INDICATOR TUBE
POWER BOARD CN302
DOLBY BOARD CN103
VOL BOARD CN403
P.S BOARD CN908

Note:
- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- ▬▬ : B+ Line
- ▪▪▪▪▪ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : A plug (input signal) is connected to the input jack J101. (operation LED D702 lights up.)
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

2-6. PRINTED WIRING BOARD — DISPLAY SECTION —

• See page 4 for Circuit Boards Location.
• See page 23 for Semiconductor Lead Layouts.


[SYSTEM BOARD]
POWER BOARD CN302
DOLBY BOARD CN103
VOL BOARD CN403
P.S BOARD CN908
FL701 FLUORESCENT INDICATOR TUBE
POWER STANDBY/OPERATION
INPUT
DOLBY PRO-LOGIC ON/OFF
SURROUND ON/OFF
SUPER WOOFER ON/OFF
MUTING
PRO-LOGIC MODE
SURROUND MODE
CENTER LEVEL
REAR LEVEL
SUPER WF LEVEL
DISPLAY
STANDARD LEVEL
TEST TONE
DELAY
BASS BOOST
1-652-380-

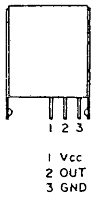
• Semiconductor Location

Ref. No.	Location
D701	D-2
D702	E-2
D703	E-4
D704	E-4
D705	E-5
D706	E-5
D707	E-6
D708	E-7
D709	B-5
IC701	C-4
IC702	C-7
IC703	F-9
IC704	C-3
IC705	B-6
IC706	D-2
Q701	B-4
Q702	B-4

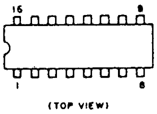
Note:
- o—— : parts extracted from the components side.
- ○ : Through hole.
- △ : internal component.
- ▩ : Pattern on the side which is seen.
- ░ : Pattern of the rear side.

2-7. SEMICONDUCTOR LEAD LAYOUTS

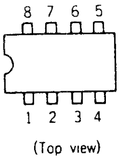
GP1U57XB


1 2 3
1 Vcc
2 OUT
3 GND

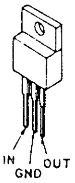
LA2730
M5283P


16
9
1
8
(TOP VIEW)

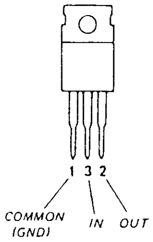
LB1639
M5218AP
NJM2072M


8 7 6 5
1 2 3 4
(Top view)

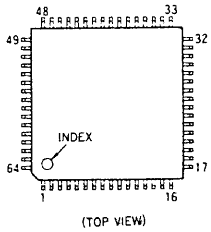
M5F7806
M5F78M12L
TA7805S



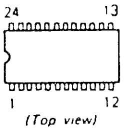
M5F7906
M5F79M12


1 3 2
COMMON
(GND)
IN
OUT

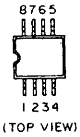
M38022M4-078FP


48
33
49
32
INDEX
64
17
1
16
(TOP VIEW)

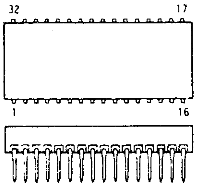
M50198P


24
13
1
12
(Top view)

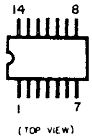
M5201FP


8765
1234
(TOP VIEW)

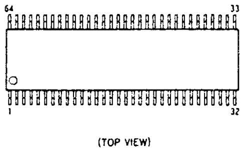
M5218AFP



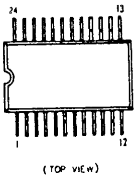
M62354FP


14
8
1
7
(TOP VIEW)

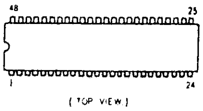
M66004M4FP


64
33
1
32
(TOP VIEW)

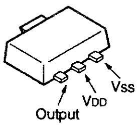
M66311FP


24
13
1
12
(TOP VIEW)

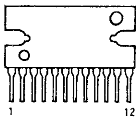
SSM2126A


48
25
1
24
(TOP VIEW)

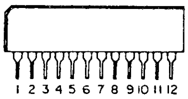
S-80741AL-A5


Vss
VDD
Output

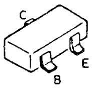
TA8221AH



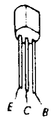
uPC2505H
uPC2505H (1)


1 2 3 4 5 6 7 8 9 10 11 12

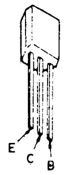
2SC1623-L5L6
2SC3396



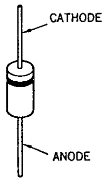
2SA733-QP



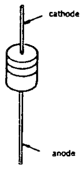
DTA124ES
DTC124ES
2SC2603-EF



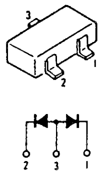
10E2


CATHODE
ANODE

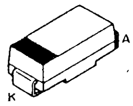
1SS119
RD20ES-B2
RD36ES-B2


cathode
anode

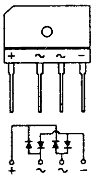
1SS181



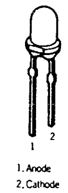
EC10DS2



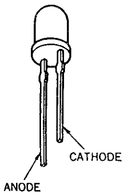
RBV2506



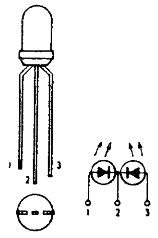
SEL4214S-D


1 2
1. Anode
2. Cathode

SEL4414E-C
SEL4914A-D


CATHODE
ANODE

SML1216W



2-8. IC PIN FUNCTIONS

- **IC701 SYSTEM CONTROL IC (M38022M4-078FP)**

Pin No.	Pin Name	I/O	Function
1	KEY1	I	A/D input for receiving system operation
2	KEY2	I	A/D input for receiving system operation
3	KEY3	I	A/D input for receiving system operation
4	POWER SW	I	Detects POWER switch operation of the remote commander and function switch
5	SIRCS	I	SIRCS signal input from the remote commander photoreceiver
6	SIRCS	I	SIRCS signal input from the remote commander photoreceiver
7	DM1	O	Output port for controlling the DOLBY PRO-LOGIC decoder
8	DM2	O	Output port for controlling the DOLBY PRO-LOGIC decoder
9	DM3	O	Output port for controlling the DOLBY PRO-LOGIC decoder
10	DM4	O	Output port for controlling the DOLBY PRO-LOGIC decoder
11	CM1	O	Output port for controlling the DOLBY PRO-LOGIC decoder
12	CM2	O	Output port for controlling the DOLBY PRO-LOGIC decoder
13	SUR MODE1	O	Output port for controlling the SURROUND mode (HALL, STADIUM)
14	SUR MODE2	O	Output port for controlling the SURROUND mode (HALL, STADIUM)
15	SUR MODE3	O	Output port for controlling the SURROUND mode (HALL, STADIUM)
16	POWER ON	–	Not used
17	AUTO SW	I	Input detection. Input="POWER ON"
18	Vss	–	GND
19	SYSTEM RESET	I	Input for forcibly resetting the system
20	OPEN	–	Not used
21	BACK UP	I	Enters BACK UP mode at the falling edge of BACK UP input
22	OSC IN	I	Connected to the clock oscillation circuit. (4 MHz)
23	OSC OUT	O	Connected to the clock oscillation circuit. (4 MHz)
24	Vss	–	GND
25	DATA	O	Serial data output
26	CLK	O	Serial clock output
27	REQ	O	Output for controlling the digital delay of M50198P
28	LD	O	Output for controlling the D/A converter of M62354FP
29	EXT-RLY	O	CENTER OUT signal output
30	EXT-MUTE	O	Output for muting the CENTER OUT signal
31	INPUT1	O	Output for switching the input signal of the remote commander and main unit
32	INPUT2	O	Output for switching the input signal of the remote commander and main unit
33	DIRECT	O	Detects DIRECT switch input of the remote commander and main unit
34	MUTE	O	Detects MUTE switch input of the remote commander and main unit
35	BASS-1	O	Detects BASS BOOST switch input of the main unit
36	OPEN	–	Not used
37	OPEN	–	Not used
38	F-CONT	O	Controls the speaker amplifier by considering the relation among POWER ON state, DOLBY MODE, etc.
39	C-CONT	O	Controls the speaker amplifier by considering the relation among POWER ON state, DOLBY MODE, etc.
40	R-CONT	O	Controls the speaker amplifier by considering the relation among POWER ON state, DOLBY MODE, etc.

Pin No.	Pin Name	I/O	Function
41	S.W-CONT	O	Controls the speaker amplifier by considering the relation among POWER ON state, DOLBY MODE, etc.
42	VOL-UP	O	Detects VOL-UP signal of the remote commander
43	VOL-DOWN	O	Detects VOL-DOWN signal of the remote commander
44	EXT-C	I	Input for detecting CENTER OUT signal
45	CKS	I	Controls the LED DRIVER for turning ON and OFF LEDs displaying operation modes
46	$\overline{\text{R}}$	I	Controls the LED DRIVER for turning ON and OFF LEDs displaying operation modes
47	CKL	I	Controls the LED DRIVER for turning ON and OFF LEDs displaying operation modes
48	A	I	Controls the LED DRIVER for turning ON and OFF LEDs displaying operation modes
49	M1	I	Detects only in the cold start and performs mode setting
50	SIRCS MODE	I	Mode switching input. ("H")
51	M2	I	Detects only in the cold start and performs mode setting
52	M3	I	Detects only in the cold start and performs mode setting
53	SDAT	O	FL driver serial data output
54	SCK	O	FL driver serial clock output
55	$\overline{\text{CS}}$	O	FL driver serial chip select output
56	$\overline{\text{RESET}}$	O	FL driver reset output
57	Vcc	–	Power supply
58	VREF	–	Reference voltage input
59	Vss	–	GND
60	OPEN	–	Not used
61	OPEN	–	Not used
62	OPEN	–	Not used
63	OPEN	–	Not used
64	SIRCS TYPE	I	Mode switching input. ("L")

SECTION 3
EXPLODED VIEWS

NOTE:

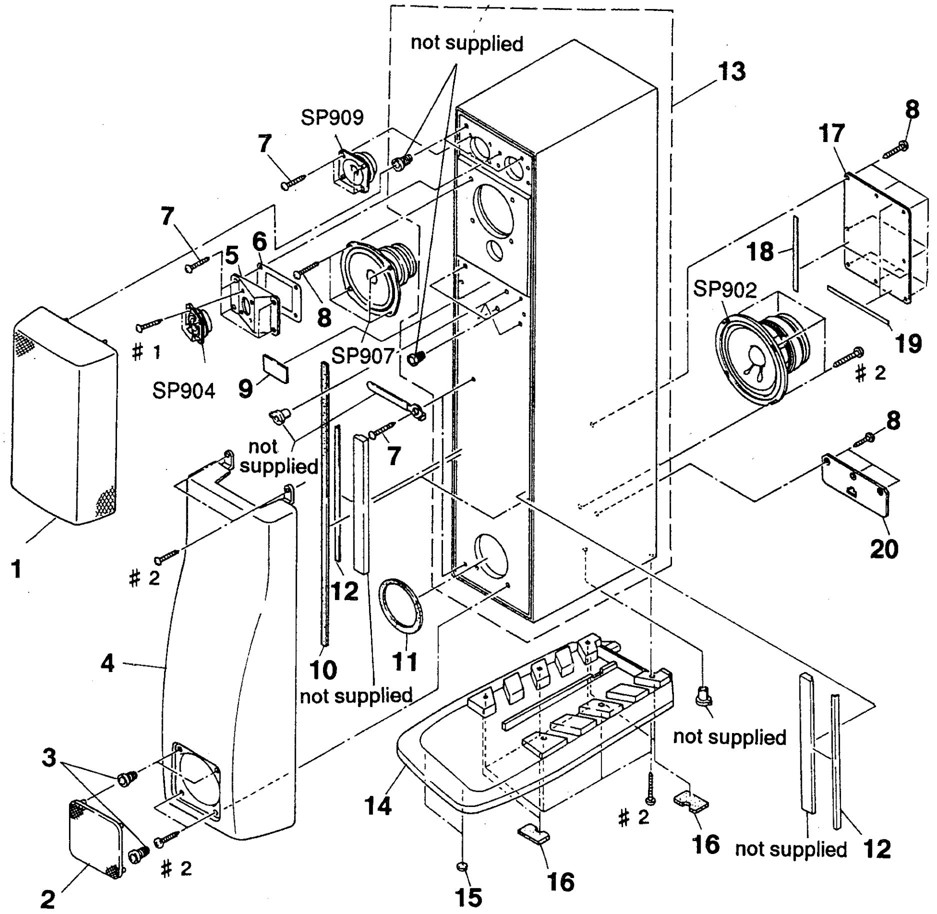
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CND : Canadian model

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

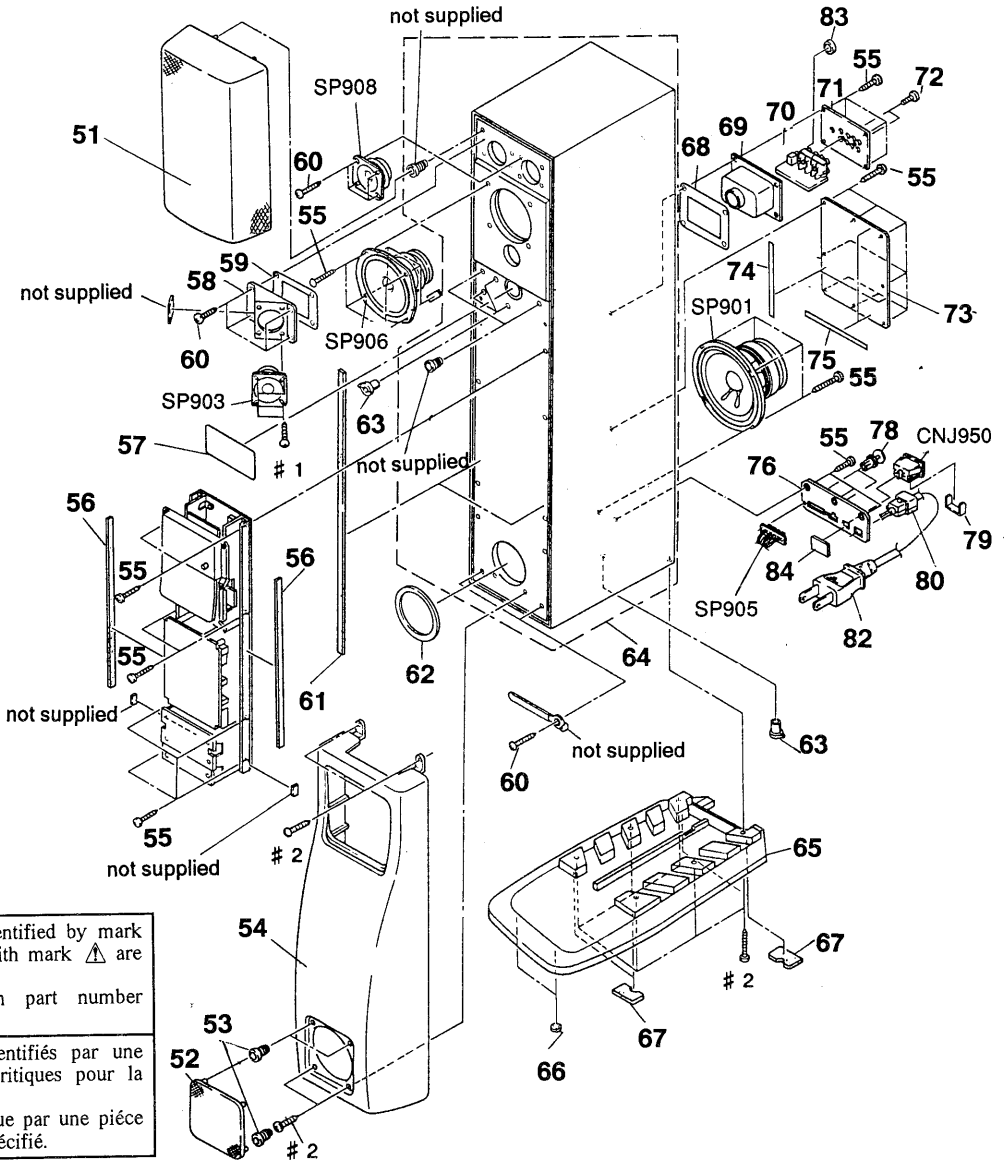
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

3-1. SPEAKER (RIGHT) BLOCK



Ref. No.	Part No.	Description	Remark
1	X-4943-465-4	FRAME (A) ASSY, GRILLE	
2	X-4943-483-1	FRAME ASSY (B), GRILLE	
3	4-912-253-01	CATCHER	
4	4-957-211-01	PANEL (L), FRONT	
* 5	4-957-215-01	FRAME, TWEETER	
* 6	4-958-052-01	PACKING, TWEETER	
7	4-949-145-01	SCREW (3.5X18), TAPPING	
8	4-923-040-01	SCREW (4X16), TAPPING	
9	4-960-250-01	MASK (B)	
* 10	4-959-065-02	PACKING (A)	
* 11	4-959-292-01	PACKING, DUCT	
* 12	4-959-109-22	PACKING (E)	
* 13	X-4944-791-3	CABINET (R) ASSY, SPEAKER (US, CND, UK)	
* 13	X-4944-793-3	CABINET (R) ASSY, SPEAKER (AEP)	
14	4-957-218-01	BASE	
15	4-959-293-11	CUSHION (B)	
16	4-959-293-01	CUSHION (A)	
* 17	4-957-217-01	BOARD (R), REAR	
* 18	4-959-109-01	PACKING (C)	
* 19	4-959-109-11	PACKING (D)	
* 20	4-958-568-01	TERMINAL BOARD (R)	
SP902	1-504-557-11	SPEAKER (16CM) (SUPER WOOFER)	
SP904	1-504-276-11	SPEAKER (5cm) (TWEETER CENTER)	
SP907	1-504-275-11	SPEAKER (13CM) (WOOFER FRONT/CENTER)	
SP909	1-504-276-11	SPEAKER (5cm) (TWEETER FRONT)	

3-2. SPEAKER (LEFT) BLOCK

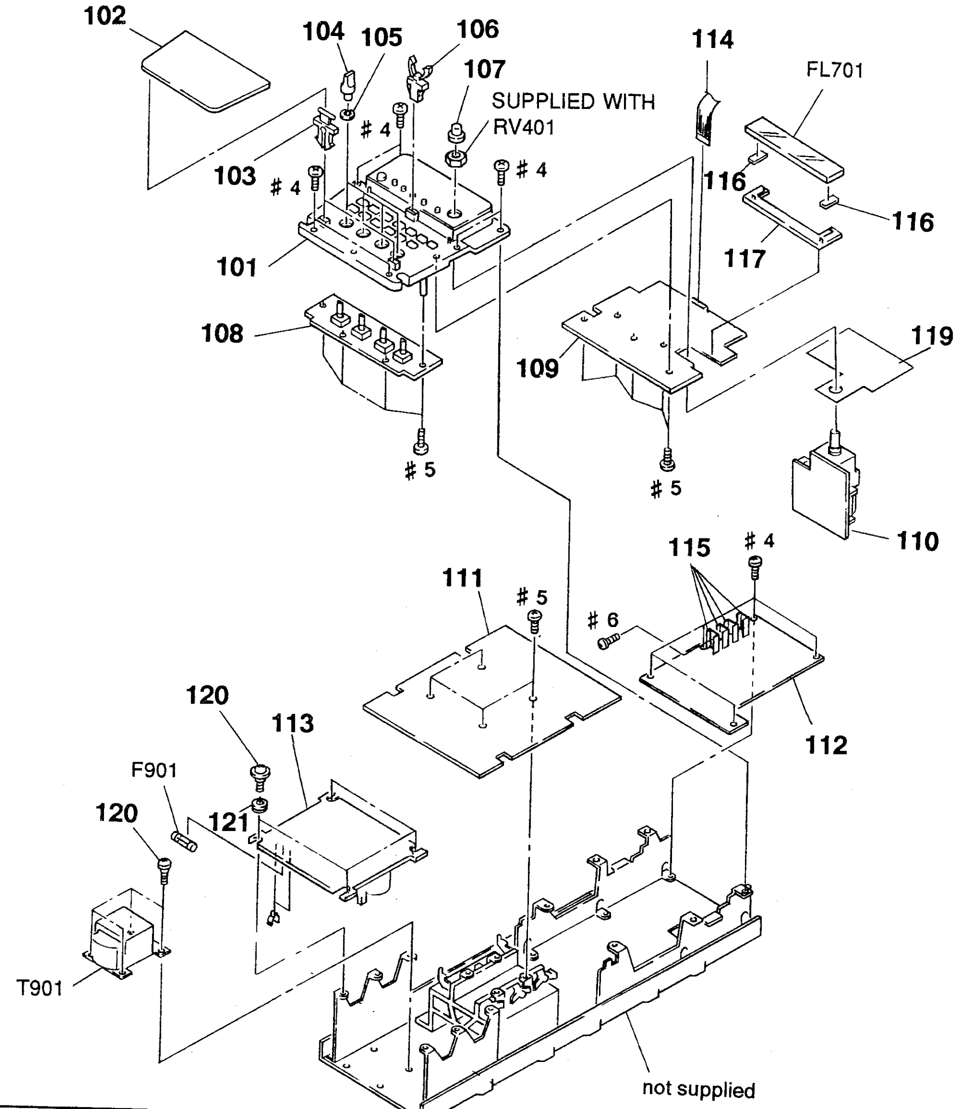

not supplied
83
55
72
71
70
69
68
55
SP908
51
60
55
59
58
not supplied
60
SP906
74
73
SP901
75
55
SP903
63
57
#1
not supplied
55
78
CNJ950
76
56
55
56
84
79
80
SP905
82
55
62
64
61
not supplied
not supplied
60
63
55
not supplied
#2
65
54
67
#2
53
52
67
66
#2

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
51	X-4943-465-4	FRAME (A) ASSY, GRILLE	
52	X-4943-483-1	FRAME ASSY (B), GRILLE	
53	4-912-253-01	CATCHER	
54	4-957-211-11	PANEL (R), FRONT	
55	4-923-040-01	SCREW (4X16), TAPPING	
* 56	4-959-066-01	PACKING (B)	
57	4-960-250-01	MASK (B)	
* 58	4-957-215-01	FRAME, TWEETER	
* 59	4-958-052-01	PACKING, TWEETER	
60	4-949-145-01	SCREW (3.5X18), TAPPING	
* 61	4-959-065-02	PACKING (A)	
* 62	4-959-292-01	PACKING, DUCT	
63	4-910-041-01	CLAMP	
* 64	X-4944-792-3	CABINET (L) ASSY, SPEAKER (US, CND, UK)	
* 64	X-4944-794-3	CABINET (L) ASSY, SPEAKER (AEP)	
65	4-957-218-01	BASE	
66	4-959-293-01	CUSHION (A)	
67	4-959-293-11	CUSHION (B)	
* 68	4-959-462-01	PACKING, TERMINAL BOARD	
* 69	4-958-255-02	COVER, TERMINAL FITTING	
* 70	1-652-387-11	INPUT BOARD	
* 71	4-958-254-01	TERMINAL BOARD	
72	3-703-685-21	SCREW (+BV 3X8)	
* 73	4-957-217-11	BOARD (L), REAR (US)	
* 73	4-957-217-21	BOARD (L), REAR (CND, AEP, UK)	
* 74	4-959-109-01	PACKING (C)	
* 75	4-959-109-11	PACKING (D)	
* 76	4-958-567-01	TERMINAL BOARD (L) (US, CND)	
* 76	4-958-567-21	TERMINAL BOARD (L) (AEP)	
* 76	4-958-567-31	TERMINAL BOARD (L) (UK)	
78	4-812-134-00	RIVET NYLON, 3.5	
79	4-960-943-01	STOPPER	
* 80	3-703-244-00	BUSHING (2104), CORD (AEP, UK)	
80	4-916-783-01	BUSHING, CORD (US, CND)	
⚠82	1-559-479-11	CORD, POWER (US, CND)	
⚠82	1-575-651-21	CORD, POWER (AEP)	
⚠82	1-696-571-11	CORD, POWER (UK)	
83	4-967-614-01	SPACER	
* 84	1-652-382-11	OUTLET BOARD (US, CND)	
⚠CNJ950	1-526-882-00	OUTLET, AC (US, CND)	
SP901	1-504-557-11	SPEAKER (16CM) (SUPER WOOFER)	
SP903	1-504-276-11	SPEAKER (5CM) (TWEETER CENTER)	
SP905	1-537-364-11	TARMINAL BOARD (REAR SPEAKER)	
SP906	1-504-275-11	SPEAKER (13CM) (WOOFER FRONT/CENTER)	
SP908	1-504-276-11	SPEAKER (5CM) (TWEETER FRONT)	

3-3. AMPLIFIER BLOCK

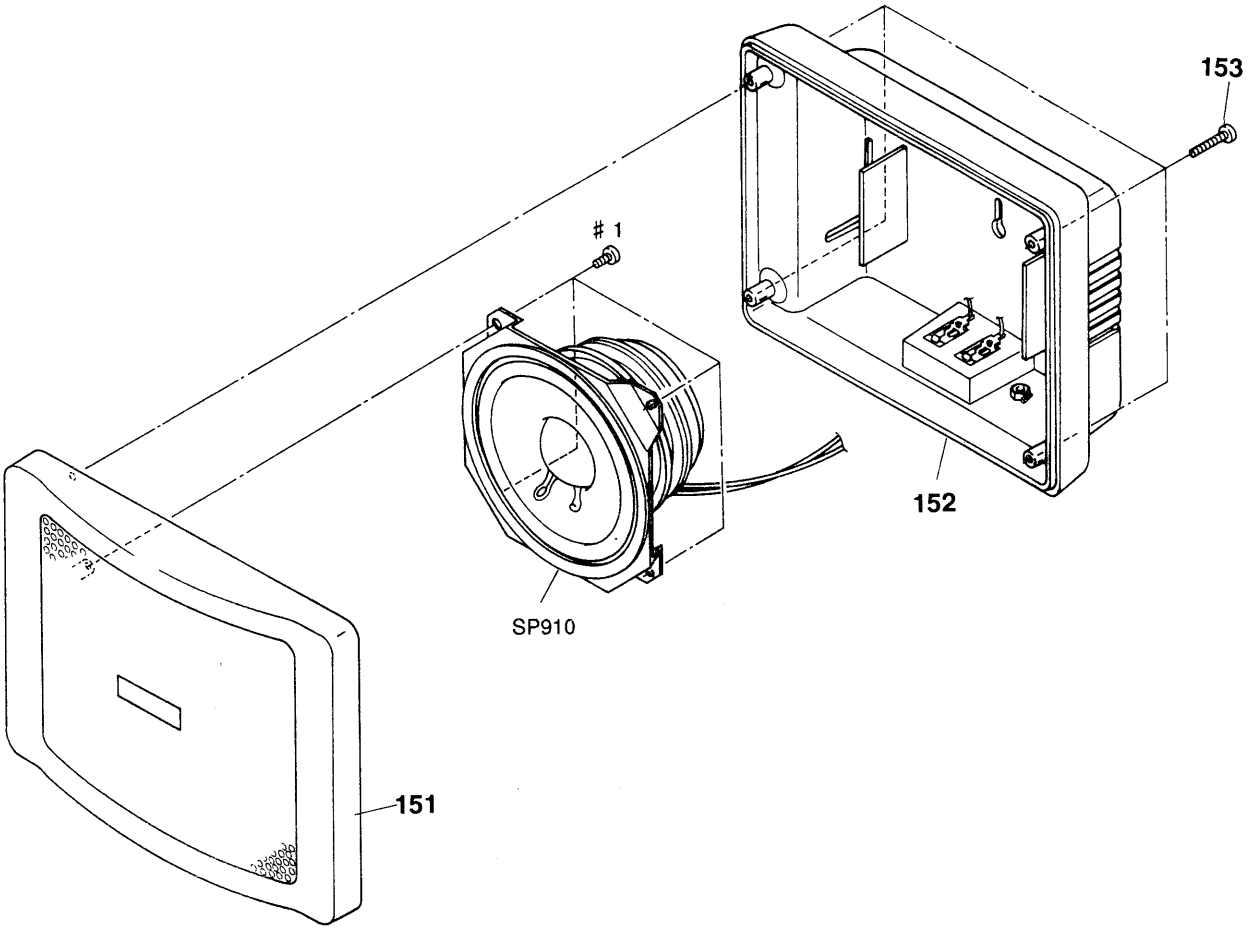

102
104
105
106
107
SUPPLIED WITH RV401
114
FL701
103
# 4
# 4
# 4
116
116
117
101
108
109
119
# 5
# 5
110
115
# 4
111
# 5
# 6
120
113
112
F901
120
121
T901
not supplied

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	X-4944-798-2	PANEL ASSY, CONTROL	
102	X-4943-922-2	COVER ASSY	
103	3-662-365-00	SHAFT (S), DOOR	
104	4-908-097-21	KNOB	
105	3-350-440-01	SPRING	
106	4-392-036-01	CATCHER, PUSH	
107	4-954-979-21	KNOB (18)	
* 108	1-652-385-11	TONE BOARD	
* 109	A-4369-773-A	SYSTEM BOARD, COMPLETE	
* 110	1-652-386-11	VOL BOARD	
* 111	A-4369-778-A	POWER BOARD, COMPLETE	
* 112	A-4369-775-A	DOLBY BOARD, COMPLETE	
* 113	A-4369-779-A	P.S. BOARD, COMPLETE (US, CND)	
* 113	A-4369-783-A	P.S. BOARD, COMPLETE (AEP, UK)	
114	1-765-289-11	WIRE (FLAT TYPE) (17 CORE)	
* 115	3-309-144-21	HEAT SINK	
* 116	4-932-810-11	CUSHION (FL)	
* 117	4-945-292-01	HOLDER, INDICATION TUBE	
118	1-533-293-11	FUSE HOLDER	
119	4-967-850-01	PLATE, SHIELD	
120	4-967-600-01	SCREW, STEP	
121	4-967-165-01	BUSHING	
⚠F901	1-532-078-00	FUSE, TIME-LAG (1.0A 250V) (AEP, UK)	
⚠F901	1-532-744-11	FUSE, GLASS TUBE (2.5A 125V) (US, CND)	
FL701	1-517-180-11	INDICATOR TUBE, FLUORESCENT	
⚠T901	1-426-771-11	TRANSFORMER, POWER (US)	
⚠T901	1-426-772-11	TRANSFORMER, POWER (CND)	
⚠T901	1-426-775-11	TRANSFORMER, POWER (AEP, UK)	

3-4. REAR SPEAKER BLOCK (SS-SR300)



Ref. No.	Part No.	Description	Remark
151	X-4943-729-2	PANEL ASSY, FRONT	
152	X-4943-730-1	CABINET ASSY, SPEAKER	

Ref. No.	Part No.	Description	Remark
153	4-929-125-01	SCREW (M4X16), TAPPING	
SP910	1-504-281-11	SPEAKER (10cm)(REAR)	

DOLBY

SECTION 4

ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- CND : Canadian model

Ref. No.	Part No.	Description			Remark
*	A-4369-775-A	DOLBY BOARD, COMPLETE *********************			
*	3-309-144-21	HEAT SINK			
	7-682-548-04	SCREW +BVTT 3X8 (S)			

< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C101	1-163-025-11	CERAMIC CHIP	0.001uF		50V
C102	1-163-025-11	CERAMIC CHIP	0.001uF		50V
C103	1-163-025-11	CERAMIC CHIP	0.001uF		50V
C104	1-163-025-11	CERAMIC CHIP	0.001uF		50V
C105	1-124-927-11	ELECT	4.7uF	20%	100V
C106	1-124-927-11	ELECT	4.7uF	20%	100V
C107	1-124-927-11	ELECT	4.7uF	20%	100V
C108	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C109	1-163-025-11	CERAMIC CHIP	0.001uF		50V
C110	1-124-903-11	ELECT	1uF	20%	50V
C111	1-124-443-00	ELECT	100uF	20%	10V
C112	1-126-101-11	ELECT	100uF	20%	16V
C113	1-126-101-11	ELECT	100uF	20%	16V
C114	1-124-443-00	ELECT	100uF	20%	10V
C115	1-124-443-00	ELECT	100uF	20%	10V
C116	1-124-927-11	ELECT	4.7uF	20%	100V
C117	1-136-169-00	FILM	0.22uF	5%	50V
C118	1-136-169-00	FILM	0.22uF	5%	50V
C119	1-136-165-00	FILM	0.1uF	5%	50V
C120	1-136-165-00	FILM	0.1uF	5%	50V
C121	1-124-907-11	ELECT	10uF	20%	50V
C122	1-136-153-00	FILM	0.01uF	5%	50V
C123	1-136-153-00	FILM	0.01uF	5%	50V
C124	1-136-153-00	FILM	0.01uF	5%	50V
C125	1-136-165-00	FILM	0.1uF	5%	50V
C126	1-124-443-00	ELECT	100uF	20%	10V
C127	1-136-165-00	FILM	0.1uF	5%	50V
C128	1-136-157-00	FILM	0.022uF	5%	50V
C129	1-136-157-00	FILM	0.022uF	5%	50V
C130	1-136-157-00	FILM	0.022uF	5%	50V
C131	1-130-469-00	MYLAR	680PF	5%	50V
C132	1-136-157-00	FILM	0.022uF	5%	50V
C133	1-130-469-00	MYLAR	680PF	5%	50V
C134	1-136-171-00	FILM	0.33uF	5%	50V
C135	1-136-171-00	FILM	0.33uF	5%	50V
C136	1-136-171-00	FILM	0.33uF	5%	50V
C137	1-136-171-00	FILM	0.33uF	5%	50V
C138	1-136-169-00	FILM	0.22uF	5%	50V
C139	1-136-169-00	FILM	0.22uF	5%	50V
C140	1-124-927-11	ELECT	4.7uF	20%	100V
C141	1-136-165-00	FILM	0.1uF	5%	50V
C142	1-136-165-00	FILM	0.1uF	5%	50V
C143	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C144	1-124-443-00	ELECT	100uF	20%	10V
C145	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C146	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C147	1-130-480-00	MYLAR	0.0056uF	5%	50V
C148	1-130-468-00	MYLAR	560PF	5%	50V
C149	1-136-165-00	FILM	0.1uF	5%	50V
C150	1-124-126-00	ELECT	47uF	20%	10V
C151	1-136-173-00	FILM	0.47uF	5%	50V
C152	1-136-173-00	FILM	0.47uF	5%	50V
C153	1-136-165-00	FILM	0.1uF	5%	50V
C154	1-130-480-00	MYLAR	0.0056uF	5%	50V
C155	1-130-468-00	MYLAR	560PF	5%	50V
C156	1-124-903-11	ELECT	1uF	20%	50V
C157	1-136-153-00	FILM	0.01uF	5%	50V
C158	1-124-903-11	ELECT	1uF	20%	50V
C159	1-126-101-11	ELECT	100uF	20%	16V
C160	1-124-907-11	ELECT	10uF	20%	50V
C161	1-124-903-11	ELECT	1uF	20%	50V
C162	1-130-482-00	MYLAR	0.0082uF	5%	50V
C163	1-130-479-00	MYLAR	0.0047uF	5%	50V
C164	1-136-158-00	FILM	0.027uF	5%	50V
C165	1-126-101-11	ELECT	100uF	20%	16V
C166	1-126-233-11	ELECT	22uF	20%	50V
C167	1-136-159-00	FILM	0.033uF	5%	50V
C168	1-124-903-11	ELECT	1uF	20%	50V
C169	1-136-165-00	FILM	0.1uF	5%	50V
C170	1-136-171-00	FILM	0.33uF	5%	50V
C171	1-163-002-11	CERAMIC CHIP	270PF	10%	50V
C172	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C173	1-163-038-11	CERAMIC CHIP	0.1uF		25V

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN101	1-564-511-11	PLUG, CONNECTOR 8P	
* CN102	1-564-513-11	PLUG, CONNECTOR 10P	
* CN103	1-569-934-11	SOCKET, CONNECTOR 17P	
* CN104	1-564-507-11	PLUG, CONNECTOR 4P	

< DIODE >

Ref.No.	Part No.	Description				Remark
D101	8-719-820-05	DIODE	1SS181			
D102	8-719-210-33	DIODE	EC10DS2			
D103	8-719-210-33	DIODE	EC10DS2			

< IC >

Ref.No.	Part No.	Description				Remark
IC101	8-759-603-27	IC	M5201FP			
IC102	8-759-603-27	IC	M5201FP			
IC103	8-759-603-27	IC	M5201FP			
IC104	8-759-603-27	IC	M5201FP			
IC105	8-759-603-27	IC	M5201FP			
IC106	8-759-603-27	IC	M5201FP			
IC107	8-759-603-27	IC	M5201FP			
IC108	8-759-603-27	IC	M5201FP			
IC109	8-759-636-55	IC	M5218AFP			
IC110	8-759-701-51	IC	NJM2072M			
IC111	8-759-170-77	IC	SSM2126A			
IC112	8-759-633-83	IC	M50198P			
IC113	8-759-823-24	IC	LA2730			
IC114	8-759-604-39	IC	M5F78M12L			
IC115	8-759-604-45	IC	M5F79M12L			
IC116	8-759-604-84	IC	M5F7806L			
IC117	8-759-604-85	IC	M5F7906L			

< TRANSISTOR >

Ref.No.	Part No.	Description				Remark
Q101	8-729-805-43	TRANSISTOR	2SC3396			
Q102	8-729-805-43	TRANSISTOR	2SC3396			
Q103	8-729-805-43	TRANSISTOR	2SC3396			
Q104	8-729-805-43	TRANSISTOR	2SC3396			
Q105	8-729-805-43	TRANSISTOR	2SC3396			
Q106	8-729-900-36	TRANSISTOR	DTC124ES			

< RESISTOR >

Ref.No.	Part No.	Description				Remark
R101	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R102	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R103	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R104	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R105	1-216-025-00	METAL CHIP	100	5%	1/10W	
R106	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R107	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R108	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R109	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R110	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R111	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R112	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R113	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R114	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R115	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R116	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R117	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R118	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R119	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R120	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R121	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R122	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R124	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R125	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R126	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R127	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R128	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R129	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R130	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R131	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R132	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R133	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R134	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R135	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R137	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R138	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R139	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R140	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R141	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R142	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R143	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R144	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R145	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R147	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R148	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R149	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R150	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R153	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R154	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R155	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R156	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R157	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R159	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R160	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R161	1-208-291-11	METAL GLAZE	4.7M	5%	1/10W	
R162	1-208-291-11	METAL GLAZE	4.7M	5%	1/10W	
R163	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R164	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R165	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R166	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R167	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R168	1-216-049-00	METAL CHIP	1K	5%	1/10W	

DOLBY INPUT OUTLET P.S.

Ref. No.	Part No.	Description				Remark
R169	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R170	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R171	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R172	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R173	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R174	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R175	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R176	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
R177	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
R178	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R179	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R180	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R181	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R182	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R183	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R184	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R185	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R186	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R187	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R188	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R189	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R190	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R191	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R192	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R193	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R194	1-216-107-00	METAL CHIP	270K	5%	1/10W	
R195	1-216-068-00	METAL CHIP	6.2K	5%	1/10W	
R196	1-216-031-00	METAL CHIP	180	5%	1/10W	
R197	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R198	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R199	1-216-107-00	METAL CHIP	270K	5%	1/10W	
R200	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R201	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R202	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R203	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R204	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R205	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R206	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R207	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R210	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R211	1-216-097-00	METAL CHIP	100K	5%	1/10W	
		< RELAY >				
RY101	1-515-519-00	RELAY				
		< VIBRATOR >				
X101	1-567-818-21	VIBRATOR, CERAMIC (3.58MHz)				

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Ref. No.	Part No.	Description				Remark
*	1-652-387-11	INPUT BOARD ***********				
		< CONNECTOR >				
* CN151	1-564-513-11	PLUG, CONNECTOR 10P				
		< JACK >				
J101	1-573-070-11	JACK, PIN 4P (INPUT1 IN/OUT)				
J102	1-573-070-11	JACK, PIN 4P (INPUT2 IN/OUT)				
J103	1-750-709-11	JACK, PIN 1P (CENTER OUT)				

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Ref. No.	Part No.	Description				Remark
*	1-652-382-11	OUTLET BOARD (US, CND) ************				
		< CONNECTOR >				
* CN951	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P (US, CND)				
* CN952	1-564-321-00	PIN, CONNECTOR 2P (US, CND)				
⚠CNJ950	1-526-882-00	OUTLET, AC (AC OUTLET) (US, CND)				

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Ref. No.	Part No.	Description				Remark
*	A-4369-779-A	P.S. BOARD, COMPLETE (US, CND) *****************************				
*	A-4369-783-A	P.S. BOARD, COMPLETE (AEP, UK) ****************************				
	1-533-293-11	FUSE HOLDER				
	7-682-548-04	SCREW +BVTT 3X8 (S)				
		< CAPACITOR >				
C901	1-109-848-11	ELECT	22000uF	20%	25V	
C902	1-124-563-11	ELECT	2200uF	20%	25V	
C903	1-124-563-11	ELECT	2200uF	20%	25V	
C904	1-124-563-11	ELECT	2200uF	20%	25V	
C905	1-124-919-11	ELECT	220uF	20%	63V	
C906	1-124-907-11	ELECT	10uF	20%	50V	
C907	1-124-907-11	ELECT	10uF	20%	50V	
C908	1-136-165-00	FILM	0.1uF	5%	50V	
C909	1-136-165-00	FILM	0.1uF	5%	50V	
C910	1-136-165-00	FILM	0.1uF	5%	50V	
C911	1-136-165-00	FILM	0.1uF	5%	50V	
C912	1-136-165-00	FILM	0.1uF	5%	50V	
C913	1-136-165-00	FILM	0.1uF	5%	50V	
C914	1-136-165-00	FILM	0.1uF	5%	50V	
		< CONNECTOR >				
CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P				
* CN902	1-565-792-11	PIN, CONNECTOR 2P				
* CN903	1-564-915-11	PIN, CONNECTOR 7P				
* CN904	1-564-242-00	PIN, CONNECTOR 5P				
* CN905	1-564-242-00	PIN, CONNECTOR 5P				

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Ref.No.	Part No.	Description	Remark
* CN906	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P	
* CN907	1-564-507-11	PLUG, CONNECTOR 4P	
* CN908	1-564-508-11	PLUG, CONNECTOR 5P	
		< DIODE >	
D901	8-719-046-83	DIODE RBV2506	
D902	8-719-200-02	DIODE 10E2	
D903	8-719-200-02	DIODE 10E2	
D904	8-719-200-02	DIODE 10E2	
D905	8-719-200-02	DIODE 10E2	
D906	8-719-200-02	DIODE 10E2	
D907	8-719-200-02	DIODE 10E2	
D908	8-719-200-02	DIODE 10E2	
D909	8-719-200-02	DIODE 10E2	
D910	8-719-200-02	DIODE 10E2	
D911	8-719-114-07	DIODE RD36ES-B2	
D912	8-719-113-45	DIODE RD20ES-B2	
		< FUSE >	
⚠F901	1-532-078-00	FUSE, TIME-LAG 1.0A 250V (AEP,UK)	
⚠F901	1-532-744-11	FUSE, GLASS TUBE 2.5A 125V (US,CND)	
⚠F911	1-532-781-11	FUSE, MICRO 3.15A 125V (US,CND)	
⚠F912	1-532-781-11	FUSE, MICRO 3.15A 125V (US,CND)	
⚠F913	1-532-781-11	FUSE, MICRO 3.15A 125V (US,CND)	
		< IC >	
IC901	8-759-231-53	IC TA7805S	
		< TRANSISTOR >	
Q901	8-729-141-03	TRANSISTOR 2SA733-QP	
		< RESISTOR >	
R901	1-249-429-11	CARBON 10K 5% 1/4W	
R902	1-249-429-11	CARBON 10K 5% 1/4W	
R903	1-249-429-11	CARBON 10K 5% 1/4W	
R904	1-249-429-11	CARBON 10K 5% 1/4W	
R905	1-249-425-11	CARBON 4.7K 5% 1/4W	F
⚠R906	1-212-881-11	FUSIBLE 100 5% 1/4W	F
R907	1-249-429-11	CARBON 10K 5% 1/4W	

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Ref.No.	Part No.	Description	Remark
*	A-4369-778-A	POWER BOARD, COMPLETE ********************	
		< CAPACITOR >	
C301	1-124-927-11	ELECT 4.7uF 20% 100V	
C302	1-124-927-11	ELECT 4.7uF 20% 100V	
C303	1-130-478-00	MYLAR 0.0039uF 5% 50V	
C304	1-130-478-00	MYLAR 0.0039uF 5% 50V	
C305	1-130-471-00	MYLAR 0.001uF 5% 50V	
C306	1-130-471-00	MYLAR 0.001uF 5% 50V	
C307	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C308	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C309	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C310	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C311	1-136-173-00	FILM 0.47uF 5% 50V	
C312	1-136-172-00	FILM 0.39uF 5% 50V	
C313	1-124-903-11	ELECT 1uF 20% 50V	
C314	1-124-907-11	ELECT 10uF 20% 50V	
C315	1-124-443-00	ELECT 100uF 20% 10V	
C316	1-136-170-00	FILM 0.27uF 5% 50V	
C317	1-136-166-00	FILM 0.12uF 5% 50V	
C318	1-136-171-00	FILM 0.33uF 5% 50V	
C319	1-136-171-00	FILM 0.33uF 5% 50V	
C320	1-136-171-00	FILM 0.33uF 5% 50V	
C321	1-136-171-00	FILM 0.33uF 5% 50V	
C322	1-124-907-11	ELECT 10uF 20% 50V	
C323	1-124-907-11	ELECT 10uF 20% 50V	
C324	1-124-443-00	ELECT 100uF 20% 10V	
C325	1-124-443-00	ELECT 100uF 20% 10V	
C326	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C327	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C328	1-130-478-00	MYLAR 0.0039uF 5% 50V	
C329	1-130-471-00	MYLAR 0.001uF 5% 50V	
C330	1-124-902-00	ELECT 0.47uF 20% 50V	
C331	1-124-902-00	ELECT 0.47uF 20% 50V	
C332	1-162-288-31	CERAMIC 330PF 10% 50V	
C333	1-124-927-11	ELECT 4.7uF 20% 100V	
C334	1-124-927-11	ELECT 4.7uF 20% 100V	
C335	1-162-288-31	CERAMIC 330PF 10% 50V	
C336	1-124-120-11	ELECT 220uF 20% 25V	
C337	1-130-496-00	MYLAR 0.12uF 5% 50V	
C338	1-130-496-00	MYLAR 0.12uF 5% 50V	
C339	1-130-496-00	MYLAR 0.12uF 5% 50V	
C340	1-130-496-00	MYLAR 0.12uF 5% 50V	
C341	1-124-557-11	ELECT 1000uF 20% 25V	
C342	1-124-902-00	ELECT 0.47uF 20% 50V	
C343	1-124-902-00	ELECT 0.47uF 20% 50V	
C344	1-162-288-31	CERAMIC 330PF 10% 50V	
C345	1-124-927-11	ELECT 4.7uF 20% 100V	
C346	1-124-927-11	ELECT 4.7uF 20% 100V	
C347	1-162-288-31	CERAMIC 330PF 10% 50V	
C348	1-124-120-11	ELECT 220uF 20% 25V	
C349	1-130-496-00	MYLAR 0.12uF 5% 50V	
C350	1-130-496-00	MYLAR 0.12uF 5% 50V	
C351	1-130-496-00	MYLAR 0.12uF 5% 50V	
C352	1-130-496-00	MYLAR 0.12uF 5% 50V	
C353	1-124-557-11	ELECT 1000uF 20% 25V	
C354	1-124-902-00	ELECT 0.47uF 20% 50V	
C355	1-124-902-00	ELECT 0.47uF 20% 50V	

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POWER

Ref. No.	Part No.	Description			Remark
C356	1-162-288-31	CERAMIC	330PF	10%	50V
C357	1-124-927-11	ELECT	4.7uF	20%	100V
C358	1-124-927-11	ELECT	4.7uF	20%	100V
C359	1-162-288-31	CERAMIC	330PF	10%	50V
C360	1-124-120-11	ELECT	220uF	20%	25V
C361	1-130-496-00	MYLAR	0.12uF	5%	50V
C362	1-130-496-00	MYLAR	0.12uF	5%	50V
C363	1-130-496-00	MYLAR	0.12uF	5%	50V
C364	1-130-496-00	MYLAR	0.12uF	5%	50V
C365	1-124-557-11	ELECT	1000uF	20%	25V
C378	1-124-903-11	ELECT	1uF	20%	50V
C379	1-124-903-11	ELECT	1uF	20%	50V
C381	1-124-903-11	ELECT	1uF	20%	50V
C382	1-124-903-11	ELECT	1uF	20%	50V
C386	1-124-903-11	ELECT	1uF	20%	50V
C387	1-124-903-11	ELECT	1uF	20%	50V
C389	1-124-903-11	ELECT	1uF	20%	50V
C391	1-136-165-00	FILM	0.1uF	5%	50V
C392	1-136-165-00	FILM	0.1uF	5%	50V
C641	1-124-903-11	ELECT	1uF	20%	50V
C642	1-162-294-31	CERAMIC	0.001uF	10%	50V
C643	1-124-477-11	ELECT	47uF	20%	25V
C644	1-124-477-11	ELECT	47uF	20%	25V
C645	1-124-477-11	ELECT	47uF	20%	25V
C646	1-124-120-11	ELECT	220uF	20%	25V
C647	1-124-120-11	ELECT	220uF	20%	25V
C648	1-124-557-11	ELECT	1000uF	20%	25V
C649	1-136-166-00	FILM	0.12uF	5%	50V
C650	1-136-166-00	FILM	0.12uF	5%	50V
C682	1-164-159-11	CERAMIC	0.1uF		50V
C691	1-164-159-11	CERAMIC	0.1uF		50V
C692	1-164-159-11	CERAMIC	0.1uF		50V
C693	1-164-159-11	CERAMIC	0.1uF		50V
C695	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN301	1-564-513-11	PLUG, CONNECTOR 10P			
* CN302	1-506-503-11	PIN, CONNECTOR 9P			
* CN303	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P			
* CN304	1-564-242-00	PIN, CONNECTOR 5P			
* CN305	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P			
* CN306	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P			
CN307	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
* CN308	1-564-674-11	PIN, CONNECTOR 8P			
		< DIODE >			
D701	8-719-911-19	DIODE	1SS119		
D702	8-719-911-19	DIODE	1SS119		
D703	8-719-911-19	DIODE	1SS119		
D704	8-719-911-19	DIODE	1SS119		
D705	8-719-911-19	DIODE	1SS119		

Ref. No.	Part No.	Description			Remark
D706	8-719-911-19	DIODE	1SS119		
		< IC >			
IC301	8-759-634-51	IC	M5218AP		
IC302	8-759-634-51	IC	M5218AP		
IC303	8-759-634-51	IC	M5218AP		
IC304	8-759-634-51	IC	M5218AP		
IC305	8-759-634-51	IC	M5218AP		
IC306	8-759-634-51	IC	M5218AP		
IC307	8-759-634-51	IC	M5218AP		
IC308	8-759-635-26	IC	M5283P		
IC309	8-759-635-26	IC	M5283P		
IC310	8-759-156-00	IC	TA8221AH		
IC311	8-759-156-00	IC	TA8221AH		
IC312	8-759-156-00	IC	TA8221AH		
IC313	8-759-178-19	IC	UPC2505H		
		< IC LINK >			
⚠ICP901	1-532-844-21	LINK, IC	(PRF3150 3.15A 90V)(AEP, UK)		
⚠ICP902	1-532-844-21	LINK, IC	(PRF3150 3.15A 90V)(AEP, UK)		
⚠ICP903	1-532-844-21	LINK, IC	(PRF3150 3.15A 90V)(AEP, UK)		
		< TRANSISTOR >			
Q301	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q302	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q303	8-729-900-63	TRANSISTOR	DTA124ES		
Q304	8-729-900-36	TRANSISTOR	DTC124ES		
Q305	8-729-900-36	TRANSISTOR	DTC124ES		
Q306	8-729-900-63	TRANSISTOR	DTA124ES		
Q307	8-729-900-36	TRANSISTOR	DTC124ES		
Q308	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q309	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q310	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q311	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q312	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q313	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q314	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q315	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q316	8-729-900-63	TRANSISTOR	DTA124ES		
Q317	8-729-900-36	TRANSISTOR	DTC124ES		
Q318	8-729-900-36	TRANSISTOR	DTC124ES		
Q320	8-729-900-36	TRANSISTOR	DTC124ES		
Q321	8-729-900-63	TRANSISTOR	DTA124ES		
Q322	8-729-900-36	TRANSISTOR	DTC124ES		
Q641	8-729-620-05	TRANSISTOR	2SC2603-EF		
		< RESISTOR >			
R301	1-249-441-11	CARBON	100K	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W
R303	1-249-433-11	CARBON	22K	5%	1/4W

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Ref. No.	Part No.	Description	Remark
R304	1-249-433-11	CARBON 22K 5% 1/4W	
R305	1-249-433-11	CARBON 22K 5% 1/4W	
R306	1-249-433-11	CARBON 22K 5% 1/4W	
R307	1-249-429-11	CARBON 10K 5% 1/4W	
R308	1-249-428-11	CARBON 8.2K 5% 1/4W	
R309	1-249-429-11	CARBON 10K 5% 1/4W	
R310	1-249-428-11	CARBON 8.2K 5% 1/4W	
R311	1-249-429-11	CARBON 10K 5% 1/4W	
R312	1-249-429-11	CARBON 10K 5% 1/4W	
R313	1-247-852-11	CARBON 7.5K 5% 1/4W	
R314	1-247-852-11	CARBON 7.5K 5% 1/4W	
R315	1-249-431-11	CARBON 15K 5% 1/4W	
R316	1-249-431-11	CARBON 15K 5% 1/4W	
R317	1-249-429-11	CARBON 10K 5% 1/4W	
R318	1-249-429-11	CARBON 10K 5% 1/4W	
R319	1-249-429-11	CARBON 10K 5% 1/4W	
R320	1-249-440-11	CARBON 82K 5% 1/4W	
R321	1-249-418-11	CARBON 1.2K 5% 1/4W	F
R322	1-247-848-11	CARBON 5.1K 5% 1/4W	
R323	1-247-903-00	CARBON 1M 5% 1/4W	
R324	1-247-878-00	CARBON 91K 5% 1/4W	
R325	1-249-437-11	CARBON 47K 5% 1/4W	
R326	1-249-417-11	CARBON 1K 5% 1/4W	F
R327	1-247-856-00	CARBON 11K 5% 1/4W	
R328	1-247-856-00	CARBON 11K 5% 1/4W	
R329	1-247-858-11	CARBON 13K 5% 1/4W	
R330	1-249-431-11	CARBON 15K 5% 1/4W	
R331	1-247-848-11	CARBON 5.1K 5% 1/4W	
R332	1-247-868-11	CARBON 36K 5% 1/4W	
R333	1-249-437-11	CARBON 47K 5% 1/4W	
R334	1-249-437-11	CARBON 47K 5% 1/4W	
R335	1-247-852-11	CARBON 7.5K 5% 1/4W	
R336	1-249-431-11	CARBON 15K 5% 1/4W	
R337	1-249-433-11	CARBON 22K 5% 1/4W	
R338	1-249-433-11	CARBON 22K 5% 1/4W	
R339	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R340	1-249-417-11	CARBON 1K 5% 1/4W	F
R341	1-249-429-11	CARBON 10K 5% 1/4W	
R342	1-249-417-11	CARBON 1K 5% 1/4W	F
R343	1-249-417-11	CARBON 1K 5% 1/4W	F
R344	1-249-417-11	CARBON 1K 5% 1/4W	F
R345	1-249-417-11	CARBON 1K 5% 1/4W	F
R347	1-249-432-11	CARBON 18K 5% 1/4W	
R348	1-249-433-11	CARBON 22K 5% 1/4W	
R349	1-249-429-11	CARBON 10K 5% 1/4W	
R350	1-249-429-11	CARBON 10K 5% 1/4W	
R351	1-249-429-11	CARBON 10K 5% 1/4W	
R352	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R353	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R354	1-249-393-11	CARBON 10 5% 1/4W	F
R355	1-249-393-11	CARBON 10 5% 1/4W	F
R356	1-249-393-11	CARBON 10 5% 1/4W	F
R357	1-249-393-11	CARBON 10 5% 1/4W	F
R358	1-249-432-11	CARBON 18K 5% 1/4W	
R359	1-249-433-11	CARBON 22K 5% 1/4W	
R360	1-249-429-11	CARBON 10K 5% 1/4W	
R361	1-249-429-11	CARBON 10K 5% 1/4W	
R362	1-249-429-11	CARBON 10K 5% 1/4W	
R363	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R364	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R365	1-249-393-11	CARBON 10 5% 1/4W	F
R367	1-249-393-11	CARBON 10 5% 1/4W	F
R368	1-249-393-11	CARBON 10 5% 1/4W	F
R369	1-249-393-11	CARBON 10 5% 1/4W	F
R370	1-249-429-11	CARBON 10K 5% 1/4W	
R371	1-249-429-11	CARBON 10K 5% 1/4W	
R372	1-249-429-11	CARBON 10K 5% 1/4W	
R373	1-249-432-11	CARBON 18K 5% 1/4W	
R374	1-249-432-11	CARBON 18K 5% 1/4W	
R375	1-249-429-11	CARBON 10K 5% 1/4W	
R376	1-249-429-11	CARBON 10K 5% 1/4W	
R378	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R379	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R380	1-249-393-11	CARBON 10 5% 1/4W	F
R381	1-249-393-11	CARBON 10 5% 1/4W	F
R382	1-249-393-11	CARBON 10 5% 1/4W	F
R383	1-249-393-11	CARBON 10 5% 1/4W	F
R390	1-249-429-11	CARBON 10K 5% 1/4W	
R391	1-249-429-11	CARBON 10K 5% 1/4W	
R392	1-249-429-11	CARBON 10K 5% 1/4W	
R395	1-249-417-11	CARBON 1K 5% 1/4W	F
R396	1-249-417-11	CARBON 1K 5% 1/4W	F
R397	1-249-429-11	CARBON 10K 5% 1/4W	
R611	1-249-429-11	CARBON 10K 5% 1/4W	
R612	1-249-429-11	CARBON 10K 5% 1/4W	
R641	1-249-417-11	CARBON 1K 5% 1/4W	F
R642	1-249-441-11	CARBON 100K 5% 1/4W	
R643	1-249-400-11	CARBON 39 5% 1/4W	F
R644	1-249-400-11	CARBON 39 5% 1/4W	F
R645	1-249-417-11	CARBON 1K 5% 1/4W	F
R646	1-249-417-11	CARBON 1K 5% 1/4W	F
⚠R647	1-249-381-11	CARBON 1 5% 1/4W	F
⚠R648	1-249-381-11	CARBON 1 5% 1/4W	F
R649	1-249-429-11	CARBON 10K 5% 1/4W	
R689	1-247-895-00	CARBON 470K 5% 1/4W	
R690	1-247-894-11	CARBON 430K 5% 1/4W	
		< SPEAKER >	
SP901	1-504-557-11	SPEAKER (16CM) (SUPER WOOFER)	
SP902	1-504-557-11	SPEAKER (16CM) (SUPER WOOFER)	

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POWER SYSTEM

Ref. No.	Part No.	Description				Remark
SP903	1-504-276-11	SPEAKER (5CM)(TWEETER CENTER)				
SP904	1-504-276-11	SPEAKER (5CM)(TWEETER CENTER)				
SP905	1-537-364-11	TERMINAL BOARD (REAR SPEAKER)				
SP906	1-504-275-11	SPEAKER (13CM)(WOOFER FRONT/CENTER)				
SP907	1-504-275-11	SPEAKER (13CM)(WOOFER FRONT/CENTER)				
SP908	1-504-276-11	SPEAKER (5CM)(TWEETER FRONT)				
SP909	1-504-276-11	SPEAKER (5CM)(TWEETER FRONT)				

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*	A-4369-773-A	SYSTEM BOARD, COMPLETE *********************				
*	4-932-810-11	CUSHION (FL)				
*	4-945-292-01	HOLDER, INDICATION TUBE				
		< CAPACITOR >				
C701	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C702	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C703	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C704	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C705	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C706	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C707	1-126-193-11	ELECT	1uF	20%	50V	
C708	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	
C709	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C710	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C711	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C713	1-163-135-00	CERAMIC CHIP	560PF	5%	50V	
C715	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
C716	1-163-038-11	CERAMIC CHIP	0.1uF		25V	
		< CONNECTOR >				
* CN701	1-569-934-11	SOCKET, CONNECTOR 17P				
* CN702	1-506-503-11	PIN, CONNECTOR 9P				
* CN703	1-564-338-00	PIN, CONNECTOR 4P				
* CN704	1-564-508-11	PLUG, CONNECTOR 5P				
		< DIODE >				
D701	8-719-304-35	DIODE	SEL4214S-D (STANDBY)			
D702	8-719-025-62	DIODE	SML1216W (OPERATION/STANDBY)			
D703	8-719-304-37	DIODE	SEL4414E-C (INPUT1)			
D704	8-719-304-37	DIODE	SEL4414E-C (INPUT2)			
D705	8-719-311-96	DIODE	SEL4914A-TP1-D (DOLBY PRO-LOGIC)			
D706	8-719-311-96	DIODE	SEL4914A-TP1-D (SURROUND)			
D707	8-719-311-96	DIODE	SEL4914A-TP1-D (SUPER WOOFER)			
D708	8-719-311-96	DIODE	SEL4914A-TP1-D (MUTING)			
D709	8-719-820-05	DIODE	1SS181			
		< FLUORESCENT INDICATOR >				
FL701	1-517-180-11	INDICATOR TUBE, FLUORESCENT				

Ref. No.	Part No.	Description				Remark
		< IC >				
IC701	8-759-196-19	IC	M38022M4-078FP			
IC702	8-759-254-76	IC	M66004M4FP			
IC703	8-759-636-56	IC	M66311FP			
IC704	8-759-178-20	IC	M62354FP			
IC705	8-759-504-40	IC	S-80741AL-A5-S			
IC706	8-749-923-43	IC	GP1U57XB			
		< TRANSISTOR >				
Q701	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
Q702	8-729-805-43	TRANSISTOR	2SC3396			
		< RESISTOR >				
R706	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R707	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R708	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R709	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R710	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R711	1-216-025-00	METAL CHIP	100	5%	1/10W	
R712	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R713	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R714	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R715	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R716	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R717	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R718	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R719	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R720	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R721	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R722	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R723	1-216-039-00	METAL CHIP	390	5%	1/10W	
R724	1-216-039-00	METAL CHIP	390	5%	1/10W	
R725	1-216-039-00	METAL CHIP	390	5%	1/10W	
R726	1-216-039-00	METAL CHIP	390	5%	1/10W	
R727	1-216-039-00	METAL CHIP	390	5%	1/10W	
R728	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R729	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R730	1-216-040-00	METAL GLAZE	430	5%	1/10W	
R731	1-216-042-00	METAL CHIP	510	5%	1/10W	
R732	1-216-044-00	METAL CHIP	620	5%	1/10W	
R733	1-216-047-00	METAL CHIP	820	5%	1/10W	
R734	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R735	1-216-040-00	METAL GLAZE	430	5%	1/10W	
R736	1-216-042-00	METAL CHIP	510	5%	1/10W	
R737	1-216-044-00	METAL CHIP	620	5%	1/10W	
R738	1-216-047-00	METAL CHIP	820	5%	1/10W	
R739	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R740	1-216-052-00	METAL CHIP	1.3K	5%	1/10W	
R741	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	

Ref. No.	Part No.	Description	Remark
R742	1-216-040-00	METAL GLAZE 430 5% 1/10W	
R743	1-216-042-00	METAL CHIP 510 5% 1/10W	
R744	1-216-044-00	METAL CHIP 620 5% 1/10W	
R745	1-216-047-00	METAL CHIP 820 5% 1/10W	
R746	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R747	1-216-049-00	METAL CHIP 1K 5% 1/10W	

< SWITCH >

Ref. No.	Part No.	Description	Remark
S701	1-692-607-11	SWITCH, TACTIL(POWER)(STANDBY/OPERATION)	
S702	1-692-607-11	SWITCH, TACTIL (INPUT)	
S703	1-692-607-11	SWITCH, TACTIL (DOLBY PRO-LOGIC)	
S704	1-692-607-11	SWITCH, TACTIL (SURROUND)	
S705	1-692-607-11	SWITCH, TACTIL (SUPER WOOFER)	
S706	1-692-607-11	SWITCH, TACTIL (MUTING)	
S707	1-692-608-11	SWITCH, TACTIL (CENTER LEVEL +)	
S708	1-692-608-11	SWITCH, TACTIL (CENTER LEVEL -)	
S709	1-692-608-11	SWITCH, TACTIL (REAR LEVEL +)	
S710	1-692-608-11	SWITCH, TACTIL (REAR LEVEL -)	
S711	1-692-608-11	SWITCH, TACTIL (SUPER WF LEVEL +)	
S712	1-692-608-11	SWITCH, TACTIL (SUPER WF LEVEL -)	
S713	1-692-608-11	SWITCH, TACTIL (BASS BOOST)	
S714	1-692-608-11	SWITCH, TACTIL (PRO-LOGIC MODE)	
S715	1-692-608-11	SWITCH, TACTIL (SURROUND MODE)	
S716	1-692-608-11	SWITCH, TACTIL (TEST MODE)	
S717	1-692-608-11	SWITCH, TACTIL (DELAY)	
S718	1-692-608-11	SWITCH, TACTIL (DISPLAY)	
S719	1-692-608-11	SWITCH, TACTIL (STANDARD LEVEL)	

< VIBRATOR >

Ref. No.	Part No.	Description	Remark
X701	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	

****

Ref. No.	Part No.	Description	Remark
*	1-652-385-11	TONE BOARD **********	

< CAPACITOR >

Ref. No.	Part No.	Description	Remark
C501	1-162-213-31	CERAMIC 39PF 5% 50V	
C502	1-162-213-31	CERAMIC 39PF 5% 50V	
C503	1-130-479-00	MYLAR 0.0047uF 5% 50V	
C504	1-130-479-00	MYLAR 0.0047uF 5% 50V	
C505	1-130-479-00	MYLAR 0.0047uF 5% 50V	
C506	1-130-479-00	MYLAR 0.0047uF 5% 50V	
C507	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C508	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C509	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C510	1-130-477-00	MYLAR 0.0033uF 5% 50V	
C511	1-130-481-00	MYLAR 0.0068uF 5% 50V	
C512	1-124-477-11	ELECT 47uF 20% 25V	
C513	1-124-477-11	ELECT 47uF 20% 25V	
C514	1-124-927-11	ELECT 4.7uF 20% 100V	
C515	1-124-927-11	ELECT 4.7uF 20% 100V	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN501	1-564-513-11	PLUG, CONNECTOR 10P	
* CN502	1-564-525-11	PLUG, CONNECTOR 10P	

< IC >

Ref. No.	Part No.	Description	Remark
IC501	8-759-634-51	IC M5218AP	
IC502	8-759-634-51	IC M5218AP	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R501	1-247-901-11	CARBON 820K 5% 1/4W	
R502	1-247-901-11	CARBON 820K 5% 1/4W	
R503	1-249-434-11	CARBON 27K 5% 1/4W	
R504	1-249-434-11	CARBON 27K 5% 1/4W	
R505	1-249-434-11	CARBON 27K 5% 1/4W	
R506	1-249-434-11	CARBON 27K 5% 1/4W	
R507	1-249-414-11	CARBON 560 5% 1/4W	F
R508	1-249-414-11	CARBON 560 5% 1/4W	F
R509	1-249-426-11	CARBON 5.6K 5% 1/4W	
R510	1-249-426-11	CARBON 5.6K 5% 1/4W	
R511	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R512	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R513	1-249-417-11	CARBON 1K 5% 1/4W	F
R514	1-249-429-11	CARBON 10K 5% 1/4W	

< VARIABLE RESISTOR >

Ref. No.	Part No.	Description	Remark
RV501	1-223-453-11	RES, VAR, CARBON 100K/100K (BASS)	
RV502	1-223-453-11	RES, VAR, CARBON 100K/100K (TREBLE)	
RV503	1-223-412-11	RES, VAR, CARBON 250K/250K (BALANCE)	
RV504	1-223-411-11	RES, VAR, CARBON 20K/20K (CENTER TONE)	

****

Ref. No.	Part No.	Description	Remark
*	1-652-386-11	VOL BOARD *********	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN401	1-564-513-11	PLUG, CONNECTOR 10P	
* CN402	1-564-513-11	PLUG, CONNECTOR 10P	
* CN403	1-564-338-00	PIN, CONNECTOR 4P	

< IC >

Ref. No.	Part No.	Description	Remark
IC401	8-759-820-62	IC LB1639	

< VARIABLE RESISTOR >

Ref. No.	Part No.	Description	Remark
RV401	1-223-650-11	RES, VAR, CARBON20K/20K/20K/20K (MASTER VOLUME)	

****

MISCELLANEOUS

****

Ref. No.	Part No.	Description	Remark
⚠82	1-559-479-11	CORD, POWER (US, CND)	
⚠82	1-575-651-21	CORD, POWER (AEP)	
⚠82	1-696-571-11	CORD, POWER (UK)	
114	1-765-289-11	WIRE (FLAT TYPE) (17 CORE)	
⚠CNJ950	1-526-882-00	OUTLET, AC (US, CND)	
⚠F901	1-532-078-00	FUSE, TIME-LAG (1.0A 250V) (AEP, UK)	
⚠F901	1-532-744-11	FUSE, GLASS TUBE (2.5A 125V) (US, CND)	
FL701	1-517-180-11	INDICATOR TUBE, FLUORESCENT	
SP901	1-504-557-11	SPEAKER (16CM) (SUPER WOOFER)	
SP902	1-504-557-11	SPEAKER (16CM) (SUPER WOOFER)	
SP903	1-504-276-11	SPEAKER (5CM) (TWEETER CENTER)	
SP904	1-504-276-11	SPEAKER (5cm) (TWEETER CENTER)	
SP905	1-537-364-11	TARMINAL BOARD (REAR SPEAKER)	
SP906	1-504-275-11	SPEAKER (13CM) (WOOER FRONT/CENTER)	
SP907	1-504-275-11	SPEAKER (13CM) (WOOER FRONT/CENTER)	
SP908	1-504-276-11	SPEAKER (5CM) (TWEETER FRONT)	
SP909	1-504-276-11	SPEAKER (5cm) (TWEETER FRONT)	
SP910	1-504-281-11	SPEAKER (10cm) (REAR)	
⚠T901	1-426-771-11	TRANSFORMER, POWER (US)	
⚠T901	1-426-772-11	TRANSFORMER, POWER (CND)	
⚠T901	1-426-775-11	TRANSFORMER, POWER (AEP, UK)	

****

ACCESSORIES & PACKING MATERIALS

****

Ref. No.	Part No.	Description	Remark
	1-467-188-11	COMMANDER, STANDARD (RM-VA3)	
	1-751-234-11	CORD, CONNECTION (FRONT SPEAKER) (4m)	
	1-765-245-11	CORD, CONNECTION (AUDIO) (3m)	
	1-765-267-11	CORD, SPEAKER (REAR SPEAKER) (10m)	
	3-758-897-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE, GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP, UK)	
	3-758-897-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
	3-758-897-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (CND)	
	4-384-285-01	COVER, BATTERY (for RM-VA3)	
*	4-959-595-01	CUSHION (UPPER)	
*	4-959-596-01	CUSHION (LOWER)	
*	4-959-629-01	INDIVIDUAL CARTON	
	4-4303-467-A	REAR SPEAKER (SS-SR300)	

****

****

HARDWARE LIST

****

Ref. No.	Part No.	Description	Remark
#1	7-685-659-79	SCREW +BVTP 4X8 TYPE2 N-S	
#2	7-621-846-60	SCREW (4X25), TAPPING	
#3	7-682-561-04	SCREW +BVTT 4X8 (S)	
#4	7-682-547-09	SCREW +BVTT 3X6 (S)	
#5	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#6	7-682-548-04	SCREW +BVTT 3X8 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

9-957-848-81

Sony Corporation

Audio Group

English
94D097586-1
Printed in Germany

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Published by Audio Sector Quality Assurance Dept.

SA-VA3

SONY®
SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model

SUPPLEMENT-2

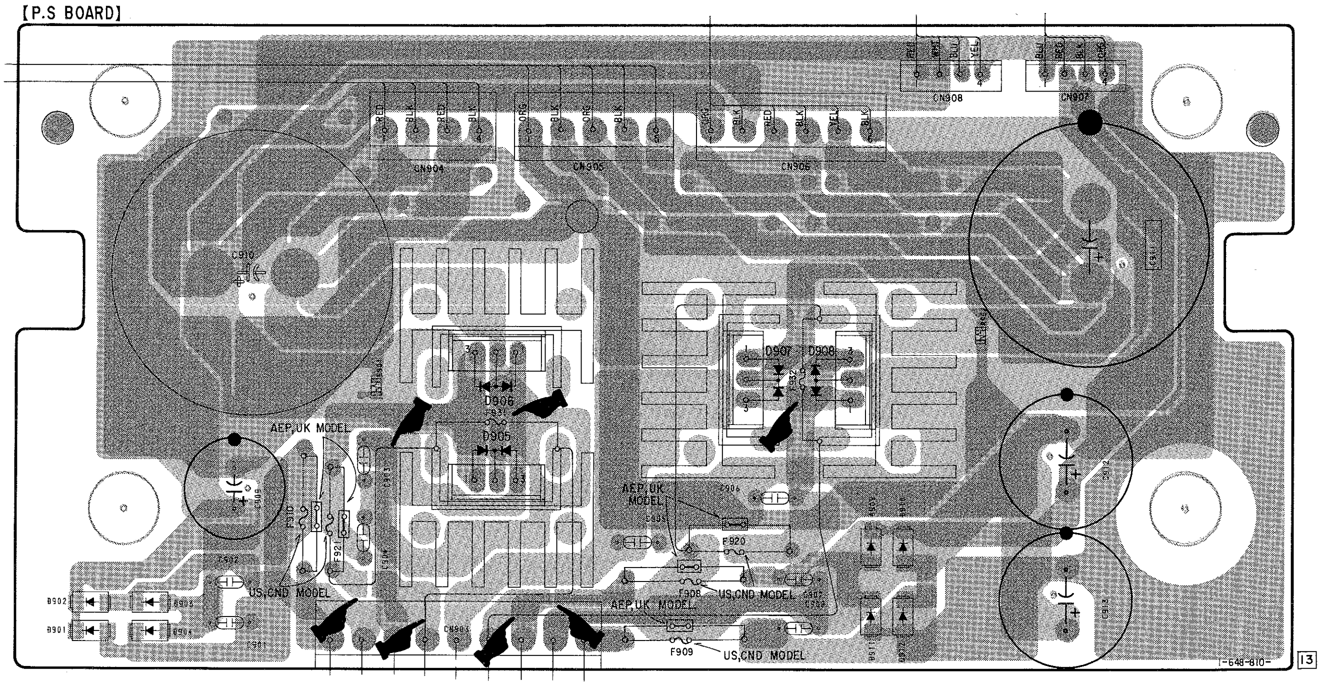
File this Supplement with the Service Manual.

Added the thermal fuse (AEP, UK Model).

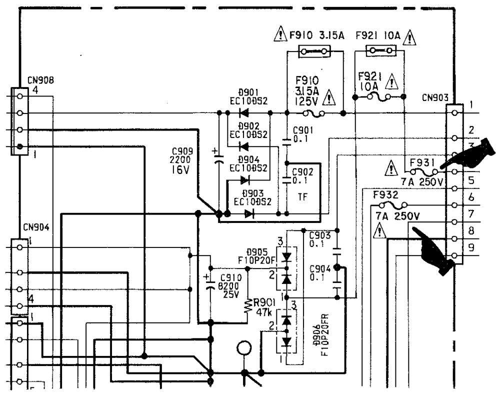
Some of the set are added the thermal fuse (F931, F932).
Refer to Original Service Manual (9-957-848-12) for the other informations not contained in this Service Manual.

: Changed portion

3-9. PRINTED WIRING BOARD — MAIN SECTION —
[P.S BOARD] (Original Service Manual Page 33, 34)


[P.S BOARD]
CN904
CN905
CN906
CN908
CN907
RED
BLK
ORG
YEL
BLU
C910
D906
D905
D907
D908
AEP,UK MODEL
US,CND MODEL
F910
F921
F920
F906
F909
D901
D902
D903
D904
C909
C912
C913
CN903
1-648-810-
13

3-10. SCHEMATIC DIAGRAM — MAIN SECTION —
[P.S BOARD] (Original Service Manual Page 39)


⚠F910 3.15A
F921 10A ⚠
CN908
C909 2200 16V
D901 EC10QS2
D902 EC10QS2
D904 EC10QS2
D903 EC10QS2
F910 3.15A 125V ⚠
F921 10A ⚠
CN903
C901 0.1
C902 0.1
TF
⚠ F931 7A 250V
F932 7A 250V ⚠
D905 F10P20FR
C910 8200 25V
R901 47k
C903 0.1
C904 0.1
D906 F10P20FR
CN904

SECTION 5

ELECTRICAL PARTS LIST

(Original Service Manual Page 66)

PS BOARD
****

*	4-964-852-01	BRACKET (TEMPERATURE FUSE)	
		(FUSE)	
⚠ F931	1-533-422-11	FUSE, TEMPERATURE	7A 250V
⚠ F932	1-533-422-11	FUSE, TEMPERATURE	7A 250V

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

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Consumer A&V Products Company
Home A&V Products Div.

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